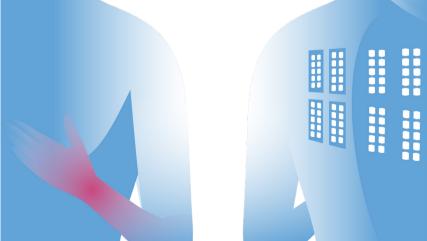


Patch Test Products & Reference Manual 2018





President's message

With 2017 coming to an end, I look back at the past year with a sense of fulfillment. I reflect on the challenges overcome, the accomplishments achieved and the advancements made in the field of contact allergy.

Entering 2018, our full hapten range is registered as pharmaceuticals in Canada following a lengthy regulatory process.

The approved registration, the first in history, is a testament to the superior quality of the Chemotechnique products. This accomplishment has been achieved through the tireless work performed by our laboratory staff and from our North American distributor Dormer Laboratories and their consultants.

I take this opportunity to extend my appreciation not only to the people involved but to all people fighting to overcome varying regulatory hurdles that are being imposed onto Patch Testing around the world, thereby limiting its beneficial expansion.

The notion that an increasing number of patients previously undiagnosed are now experiencing an enhanced quality of life through the diagnosis of contact allergy assures me that Patch Testing remains as relevant as ever before, and I am of the firm belief that Patch Testing is, and will continue to be, a procedure worth fighting for.

Always at your service,

Bo Niklasson

CEO and President
Chemotechnique MB Diagnostics AB





Patch Test Products authorized by the ICDRG Distributed Worldwide



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Chemotechnique



Chemotechnique - The trusted name in Patch Testing



Chemotechnique MB Diagnostic AB ("Chemotechnique") has provided Patch Test solutions since 1981 and is proudly recognized as the Trusted name in Patch Testing. Chemotechnique is a Sweden based

company with global reach through world-wide distribution.

Research and Development



With emphasis on R&D and working in close cooperation with contact dermatitis research groups such as the International Contact Dermatitis Research Group (ICDRG), the European Environmental and Contact

Dermatitis Research Group (**EECDRG**) and the North American Contact Dermatitis Group (**NACDG**), Chemotechnique ensures an ideally composed product line-up.

Highest quality products



Chemotechnique offers a complete range of high quality Patch Test Products including Patch Test Haptens, Patch Test Units as well as Patch Test Accessories and Spot Tests. Our haptens are produced in Sweden under strict

pharmaceutical control following the **GMP** quality management system audited by the Swedish Medical Products Agency. Certified by the **ISO 13485** and **ISO 9001** Quality Management systems the Chemotechnique high quality products and reliable service will aid you in the diagnosis of contact allergy in your patients.

Online resources



Visit the continually updated www.chemotechnique.se website to access the Chemotechnique online resources including an extensive Hapten Database, patch testing Video Instructions, Patch test record forms, Patient

information sheets and much more. Create a free account today!











Contact Allergy



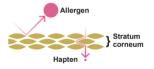
Contact Allergy & Allergic Contact Dermatitis (ACD)



Contact Allergy is the result of specific immune responses caused by antigens. Unlike allergens (such as pollens and animal proteins) causing other forms of allergy, the culprits of Contact Allergies, haptens, are not antigens by themselves. Haptens (typically small,

chemically reactive molecules with low molecular weight) need to penetrate the horny layer of the skin in order to conjugate to epidermal and dermal proteins forming "hapten-carrier complexes" with antigenic properties capable of causing **contact allergy.** Examples of widely recognized haptens include nickel, formaldehyde and other preservatives in cosmetics.

Contact allergy is the state of being sensitized to a hapten. Sensitization to a hapten occurs when the accumulated exposure to the hapten surpasses a certain threshold. This threshold is



individual and varies greatly, some will develop an allergy the first time encountering the hapten while others withstand a life time of exposure without becoming sensitized. The median prevalence of contact allergy to at least one hapten is around 25% in the general population.

Allergic Contact Dermatitis (ACD) is a disease of the skin that can emerge in people that are exposed to specific haptens after having developed contact allergy to them. Once allergic, the subject might respond with skin inflammation (redness, flaking skin or blisters) whenever exposed. Individuals handling haptens as part of their

profession run a higher risk of developing **ACD**. ACD accounts for 20% of all reported work related skin diseases. Occupational fields with high occurrences of ACD include (but are not limited to) hairdressing, construction work, cleaning and health care. Chronic once developed, and with no known cure, contact allergy is of major distress for those affected.

Diagnosis



While contact allergy cannot be treated it can be diagnosed; by **Patch Testing** and not by **Skin Allergy Testing** (such as skin prick testing - used for the diagnosis of, for instance, respiratory allergies). Knowing what hapten is causing the allergic reactions helps the

patient stay clear of that specific hapten, avoiding **ACD** and thereby effectively improving the quality of life for the individual.

The indication for Patch Testing is to **test all patients in whom contact allergy is suspected or needs to be ruled out,** regardless of age or anatomical site of dermatitis.

Chemotechnique provides all tools required to perform patch tests the IQ way - the gold standard for diagnosing contact allergy. In order to perform a diagnostic Patch Test, two crucial components are required; **Patch Test Haptens** and **Patch Test Units**.

Patch Test Haptens



The hapten preparations used in patch testing should ideally be specifically developed for patch testing purposes. The Patch Test Haptens manufactured by Chemotechnique are standardized and prepared by mixing high purity fine particle ground raw material with

high purity grade white petrolatum using state of the art technology.

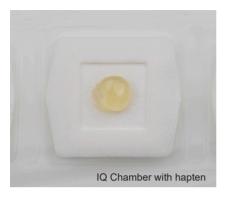
Patch Test Units



To ensure that the hapten remains in direct contact with the skin for the time required (48h) to create a standardized controlled reaction, a Patch Test Unit is needed. A Patch Test Unit is composed of sets of chambers mounted on an adhesive tape. The purpose

of the patch test chambers is to provide a defined areai in which the skin will be exposed to the haptens during the testing.

Patch Test Products





IQ Patch Test Chambers

The Inert Quadrate (IQ) chambers are the most technologically advanced patch test chambers ever developed.

The laminated tape/foam/filter paper construction results in a comfortable chamber providing a unique closed-cell and leak-free system which defines a test area.

The quadrate shape allows for easy differentiation between allergic and irritant reactions. This patented patch test chamber design is found in both IQ Ultra™ and IQ Ultimate™ Patch Test Units.

The integrated filter papers makes handling of loose filter papers unnecessary.

Adhesive chamber rim



The adhesive eliminates hapten leakage and enhances the adhesion of the test unit to the skin

Foam frame for high comfort

The chambers are made of inert additive free soft



polyethylene foam.

Integrated filter paper

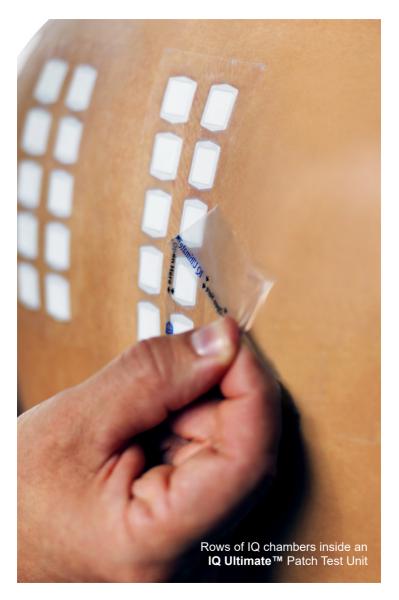


The integrated filter paper facilitates easy handling liquid haptens.

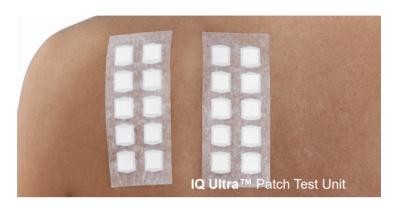
IQ Chamber:

Size:

Inside area: 64 mm² Chamber volume: 32 ul



IQ Ultra™



IQ Ultra™ (IQ-U)

Comfortable and chemically inert - IQ Ultra™ is the reliable patch test choice. The IQ Ultra™ is designed to take full advantage of the acclaimed IQ Chambers. The strong adhesive properties of the premium quality, hypoallergenic and latex free carrier tape eliminates the need for extra reinforcement for patients with normal skin. The IQ Ultra™ Patch Test Units are most cost effective as filter papers and protective covers are not add-ons, but integrated into the design.

IQ Chambers



The IQ Ultra™
Patch Test Unit is designed to take full advantage of the IQ
Chambers.

With strong adhesion and compact size it is a versatile and reliable Patch Test Unit.

Closed-cell & Leak-free



The closed-cell chamber provides a defined test area for standardized testing as the

concept of dose/area can be used.

Protective cover



Preloading helps maximize staff efficiency as multiple tests can be prepared in advance.

By using the **Application Device**, loading of the test units is made efficient and time saving.

Aluminum free



No uncomfortable metal chambers that might react chemically to haptens ensures test reliability. Aluminum

free means environmentally safe.

IQ Ultimate[™]



IQ Ultimate™ (IQ-UL)

Elastic, transparent and water resistant. In addition to the features shared with the IQ Ultra™, IQ Ultimate™ has the above named added benefits as a result of the 25 micron thin carrier film.

Allowing for both showers and moderate exercise - IQ Ultimate™ is the ideal Patch Test Unit for the diagnosis of contact allergy in active patients.

Water resistant



The IQ Ultimate™ carrier tape is water resistant allowing for moderate exercise and showers

during the patch test procedure.

Highly elastic



The elasticity of the IQ Ultimate™ carrier tape permits patients to maintain an active

lifestyle during the test period.

Superior adhesion



IQ Ultimate™ is the perfect patch test choice in warm climate due to its superior adhesion to the skin.

IQ Ultra™/IQ Ultimate™:

The box includes 100 Patch Test Units as well as a Reading Plate.

Patch Test Unit:

Size: 52 x 118 mm Chambers/Unit: 10 pcs

Patch Test Accessories



The Application Device (AP-P) significantly facilitates preloading multiple IQ Ultra™ or IQ Ultimate™ Patch Test Units. This is convenient when preparing test series in advance, such as the Baseline Series, for a suitable number of patients.

Syringe Cap Organizer



The device is equipped with a feature that facilitates the detachment and attachment of the

syringe caps without skin contact.

Fixates Patch Test Units



The design prevents the Patch Test Unit from sliding during application of the haptens.



The Reading Plate for IQ Ultra™/ IQ Ultimate™ (RP-P) facilitates reading and the interpretation of the skin reactions.

Easy Diagnosis



To facilitate visual diagnosis, reference pictures of allergic reactions are printed on the

Reading Plate. The images are categorized in accordance with the definition recommended by the International Contact Dermatitis Research Group (ICDRG).

Spot Tests



Chemotechnique has developed three different markers to mark the patch test area.

Chemo Skin Marker™ - Regular (SM)



In addition to gentian violet, the Chemo Skin Markers contain silver nitrate for prolonged staining of the skin.

Chemo Skin Marker™ - Slim (SMS)



The Chemo Skin Marker - Slim™ is a slimmer version of Chemo Skin Marker - Regular™.

Chemo Skin Marker™ - UV (SMUV)



The Chemo Skin Marker - UV™ paired with the Ultraviolet Lamp is suitable for dark skin types or when a non staining marking

solution is preferred.



Chemo Nickel Test™ (NT) and Chemo Cobalt Test™ (CoT) provide easy ways to detect free nickel or cobalt in metallic objects. The one-component products are easily managed with supplied cotton tips.

Rub & Compare



Rub a moistened cotton tip on the suspected metal object

and compare the color result to the supplied reference color.

Patch Test Haptens



Chemotechnique offers the widest range of commercially available high quality Patch Test Haptens. The 555+ different preparations are available for purchase in sets of series or as individual preparations. The composition of the various Baseline Series, as well as the additional Screening Series, has been carefully selected based on the latest studies and in close co-operation with leading contact dermatitis societies.

Highest quality



The Patch Test Haptens are prepared using state of the art technology by grinding high purity raw materials down to extremely fine particle size. The ground particles are homogenized either with high purity grade white petrolatum or with the appropriate highest purity liquid vehicles.

Preloading



Non-volatile Patch Test Haptens may be preloaded onto IQ Ultra™ or IQ Ultimate™ Patch Test Units and stored for up to two weeks before test application if stored refrigerated, with sealed covers, and kept in air tight bags.

Hapten preparations that may not be preloaded are marked with:



Listed online



The composition of some series is not listed in this printed catalogue but only available for review online. These series are subject to irregular updates why consulting the **www.chemotechnique.se** for current composition is advised. Affected series are marked with:

Patch Test Haptens:

Patch Test Haptens are delivered in either 5 ml syringes or in 8 ml dropper bottles and covers approx. 150 patients (~200 25µl doses).

Baseline Series



The haptens in a Baseline Series form the foundation for all routine patch testing. Chemotechnique has developed several regional and national Baseline Series in co-operation with local clinics and research groups. These tailored Baseline Series enable efficient routine

Patch testing with maintained high relevance.

In addition to Baseline Series, a Screening Series may be added based on the occupation and everyday exposure of the patient. Chemotechnique provides a number of such Screening Series, all of which are listed on the next page.

International Baseline Series:

European Baseline	(S-1000)
International (Standard) Baseline	
International Comprehensive Baseline	(IČB-1000)
Latin American Baseline	
North American Baseline	(NA-1000)
North American Extended	(NAE-65)
North American Comprehensive	(NAC-80)

National Baseline Series:

National Dasenne Series.	
Australian Baseline	(ABS-1000)
Belgian Baseline	(BS-1000)
British Baseline	(GB-1000)
Chinese Baseline	(CB-1000)
Finnish Baseline	(ÈIN-1000)
Hungarian Baseline	(HU-1000)
Indian Baseline	(ÌNS-1000)
ltalian Baseline	(SIDAPA-1000)
Korean Baseline	(KOR-1000)
Portuguese Baseline	(PB-1000)
Polish Baseline	(POL-1000)
Spanish Baseline	(SB-1000)
Swedish Baseline	

Tailored testing:

All Patch Test Haptens produced by Chemotechnique can be ordered individually, making customization of series possible. This is ideal when modifying a Patch Test Hapten Series to include additional sources identified as patient specific exposure.

Hapten Series

Screening Series



The Screening Series are used in combination with a Baseline Series to facilitate the screening of patients with occupational, or recreational, exposure to a defined set of haptens.

International Screening Series:

• Bakery	(B-1000)
Corticosteroid	(CS-1000)
Cosmetic	(C-1000)
Cutaneous Adverse Drug Reaction	(CAD-1000)
Dental Screening Dental Materials - Patients	(DS-1000)
Dental Materials - Staff	(DMS-1000)
• Epoxy	(E-1000)
European Photopatch Baseline	
European Photopatch Extended	(EPE-1000)
Fragrance	(F-1000)
Hairdressing	(H-1000)
Isocyanate	(I-1000)
• Leg Ülcer	(LU-1000)
Medicament	
• Metal	(MET-1000)
• (Meth) Acrylate - Adhesives, Dental & Other	(MA-1000)
(Meth) Acrylate - Artificial Nails	(MN-1000)
(Meth) Acrylate - Printing	(MP-1000)
Oil & Cooling Fluid	(O-1000)
Photographic Chemicals	(P-1000)
• Shoe	
Sunscreen	
Textile Colors & Finish	(TF-1000)
Various	(V-1000)
National Screening Series:	,
Indian Footwear	(INF-1000)
Indian Cosmetic & Fragrance	
North American Photopatch	
Swedish Photopatch	
•	` '

Photopatch testing:

Photopatch Series test for reactions to irradiated and non-irradiated photohaptens. The test method when testing photopatch series differs from regular patch testing. Please visit

www.photopatch.eu for the ESCD approved methodology.

International Baseline Series

European Baseline (S-1000) p. 33



The European Baseline (EBS) was the first defined Baseline Series and forms the foundation for many other Baseline Series. The initial composition was based on the studies of frequencies of Contact Allergy performed by the European

Environmental and Contact Dermatitis Research Group (**EECDRG**). The EBS is today governed by a branch of the **ESCD**.

International Baseline (IS-1000) p. 35



This Baseline Series is a selection of haptens based on the studies performed by the International Contact Dermatitis Research Group (ICDRG).

International Comprehensive Baseline (ICB-1000) p. 37



This extensive Baseline Series is ideal for physicians preferring comprehensive routine screening. The selection of haptens is based on the studies performed by the North American Contact Dermatitis Group (NACDG).

Latin American Baseline (LA-1000) p. 40



This Baseline Series is a selection of haptens based on the studies performed by the Colegio Ibero-Latinoamericano de Dermatología (CILAD).

North American Baseline Series (NA-1000, NAE-65, NAC-80) p. 43 / p. 45 / p. 48



These Baseline Series are selections of haptens based on studies performed by the North American Contact Dermatitis Group (NACDG). The Series contains 50, 65 and 80 haptens respectively, providing suitable Baseline Series for any clinic.

International Screening Series

Bakery (B-1000) p. 53



This series is a selection of haptens (primarily preservatives and substances valued for their fragrance and taste) included in foods and pastries.

Hapten Series

Corticosteroid (CS-1000) p. 53



This series is a selection of haptens found in topical pharmaceutical products such as corticosteroid creams and ointments.

Cosmetic (C-1000) p. 54



This series is a selection of haptens used for fragrance, preservation, sun protection and formulation of cosmetics and beauty products.

Cutaneous Adverse Drug Reaction (CAD-1000) p. 56



This series is a selection of haptens present in pharmaceutical products such as antibiotics, NSAID's and painkillers. These pharmaceutical products may cause systemic dermatitis.

Dental Screening (DS-1000) p. 57



This series is a selection of haptens, primarily metals and plastics, which **both patients and professionals** are exposed to in dental care.

Dental Materials - Patients (DMP-1000) p. 58



This series is a selection of haptens that primarily dental care **patients** are exposed to. These haptens include plastics, fragrances and composite materials used for mending teeth.

Dental Materials - Staff (DMS-1000) p. 58



This series is a selection of haptens that primarily dental care **professionals** are exposed to. These haptens include plastics, fragrances and composite materials used

for mending teeth.

Epoxy (E-1000) p. 59



This series is a selection of haptens (primarily stabilizers, additives, resins and epoxies) professionals working with epoxy pastes and glues are exposed to.

European Photopatch Baseline (EP-1000) p. 59



This series is a selection of haptens (UV-blockers, additives and pharmaceutical compounds) present in skincare products protecting against the sun.

European Photopatch Extended (EPE-1000) p. 60



This series is an extended selection of haptens (UV-blockers, additives and pharmaceutical compounds) present in skincare products protecting against the sun.

Fragrance (F-1000) p. 61



This series is a selection of haptens (fragrances) found in perfumes and beauty products.

Hairdressing (H-1000) p. 63



This series is a selection of haptens that hairdressing professionals are exposed to. These haptens include coloring agents, stabilizers, metals and preservatives.

Isocyanate (I-1000) p. 64



This series is a selection of haptens (primarily chemicals that are used as stabilizers or additives in plastics) that professionals working with isocyanates are exposed to.

Leg Ulcer (LU-1000) p. 64



This series is a selection of haptens (substances used for their medical, preservative or formulative properties) which patients can be exposed to when being treated for leg ulcers.

Medicament (ME-1000) p. 65



This series is a selection of haptens that healthcare professionals are exposed to when medicating antibiotics and topical pharmaceutical products.

Metal (MET-1000) p. 66



This series is a selection of haptens (metals present in everyday objects such as jewelry, coins and tools) commonly causing contact allergy.

(Meth) Acrylate - Adhesives, Dental & Other (MA-1000) p. 67



This series is a selection of haptens that professionals working with acrylates in adhesives are exposed to.

(Meth) Acrylate - Nails Artificial Series (MN-1000) p. 68



This series is a selection of haptens (plastics and acrylates) found in artificial nails and products relating to the adhesion of artificial nails.

Hapten Series

(Meth) Acrylate - Printing series (MP-1000) p. 68



This series is a selection of haptens (primarily plastics, stabilizers and acrylates) found in printing processes.

Oil & Cooling Fluid (O-1000) p. 69



This series is a selection of haptens (primarily stabilizers and preservatives) that professionals working with mechanical fluids are exposed to.

Photographic Chemicals (P-1000) p. 70



This series is a selection of haptens (primarily developers, oxidizers and reacting agents) that professionals working with darkroom film development are exposed to.

Plant (PL-1000) p. 71



This series is a selection of haptens (plant extracts) that outside their natural environment commonly are found in "natural / organic" beauty products.

Plastic & Glue (PG-1000) p. 71



This series is a selection of haptens (stabilizers, plastics, phthalates, preservatives and bactericides) that professionals working with plastics are exposed to.

Rubber Additive (R-1000) p. 72



This series is a selection of haptens (stabilizers, antioxidants, preservatives and bactericides) that professionals working with rubber are exposed to.

Shoe (SH-1000) p. 73



This series is a selection of haptens (tanning materials, coloring agents and preservatives/bactericides) that are found in shoes and in the shoe manufacturing industry.

Sunscreen (SU-1000) p. 74



This series is a selection of haptens (UV-blockers) found in skincare products that protect against the sun.

Textile Colors & Finish (TF-1000) p. 74



This series is a selection of haptens (primarily coloring agents and bactericides) found in textiles and clothes.

Patch Test Instructions











Patch Test Instructions



Remove Patch Test Haptens from refrigeration.



Insert IQ Ultimate[™] or IQ Ultra[™] Patch Test Unit into the Application Device.



Break the perforation of a preferred corner by folding the corner downwards and upwards.



Grip the tape by the detached corner and pull back gently until all chambers are revealed. Do not completely remove the tape from the protective cover.



Depress the clip on the **Application Device** and slide the tape underneath

- release the clip



Apply $25 \mu l^*$ of hapten in each patch test chamber starting with the 1^{st} hapten of the series in the corresponding chamber.



Depress the clip and carefully detach the Patch Test Unit. Remove the Patch Test Unit from the **Application Device.**



Put haptens (and Patch Test Units if preloading) back in fridge. ! Preloaded Patch Test Units can be stored for < 2 weeks if stored in air tight bags**

^{* 25} µl equals approximately to a 5 mm string of petrolatum or a single drop of liquid. ** Volatile haptens may never be preloaded.



Position the Patch Test Unit by holding it by its protective cover and apply the tape onto the patient. Remove the plastic corner. Press your palm on the tape for **5 seconds** to enhance adhesion.

! Wipe the test site with ethanol before application to ensure good adhesion.



IQ Ultimate™ only:

When all test units have been applied, remove the top-liners with a gentle diagonal motion.



Mark the 1st and the 5th chamber using a **Chemo Skin Marker**[™].

I Register the sites location in a

! Register the sites location in a Patch test record form.***



After 48 hours:

Remove the Patch Test Units with a gentle diagonal motion to minimize patient discomfort.



*** Patch Test record forms are available at www.chemotechnique.se

Featured topics



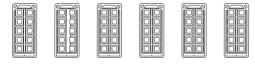
European Baseline to be revised in 2018

The European Baseline Series (EBS) is in the process of receiving an official upgrade following an ongoing ESCD revision. The revised European Baseline will be unveiled in connection with the 2018 ESCD meeting in Milan. Please find the latest information regarding the EBS at www.escd.org

Early adopter?

Chemotechnique has agreed to make the suggested composition of the updated European Baseline Series commercially available as soon as the ESCD working group has presented its initial proposal. Please contact us for more information if you wish to be among the first physicians to incorporate the updated Baseline Series.

The ICB now on 8 patches!



As a result of popular demand the International Comprehensive Baseline (ICB) has been adjusted to fit 8 patches.

We ensure that the increased user-friendliness has not made the series less relevant as the new composition with its deletions, new concentrations and additions has solid support based on published studies.

International Comprehensive Baseline

The International Comprehensive Baseline is a modified version of the North American Extended Baseline, adjusted for international use. The updated ICB is based on the upcoming changes made to the **EBS** (see article above) as well as the latest **NACD** studies.

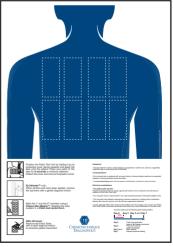
Patients suffering from Nickel Allergy?



Chemotechnique Cosmeceuticals Scandinavia AB, an affiliated company to Chemotechnique, has developed **NIK-L-BLOK™**, a nickel barrier cream. The patented, proven effective, barrier cream uses DTPA to prevent nickel ions from penetrating the skin. The cream protects the skin from developing nickel induced eczemas during contact with nickel containing items. For patients suffering from nickel allergy, in particular those with occupational exposure to nickel, this barrier cream will greatly improve their quality of life. For further product information and availability in your region please visit **www.niklblok.com**

Modular Patch Test workshop kit

A modular workshop kit has been created as an answer to a growing demand of Patch Testing workshops. The workshop kit consists of two main parts - a base kit and individual kits. The base kit forms the foundation for the workshop as it includes demo haptens, an Application device, a Patch Testing Practice Poster as well as a Chemo Skin Marker™ and Chemo Nickel Test™. The individual kit includes sufficient material for one individual participating in a Patch testing workshop; 1 "Contact Allergy and Patch Testing" brochure and 4 Patch Test Units, 2 IQ Ultra™ and 2 IQ Ultimate™. Each base kit is designed to cover 10 simultaneous participants when performing a workshop.



The Patch Testing Practice Poster

The presentation "Patch Testing – an introduction" available on www.chemotechnique.se is a good starting platform for a practical Patch Test workshop.

Clinical information

Patch Testing

Patch testing involves a number of scheduled patient appointments within a one-week time-frame. After the test application on Day 0, two or three appointments are needed for readings.

Patch test mode of action

For topical use only. The patch test procedure is an epicutaneous diagnostic provocation test using standardized haptens ("Patch Test Haptens"). Haptens are typically small, chemically reactive molecules with low molecular weight that, when bound to skin protein, are able to elicit an immune response. Patch testing is performed by applying haptens into small chambers mounted on tape ("Patch Test Units") and placed onto the patient's skin. In sensitized individuals this immune response results in an allergic contact eczema confined to the application area of the chamber on the patient's skin (a positive patch test reaction).

Indications

Patch Testing is the standard procedure for aiding the diagnosis of Contact Allergy when Allergic Contact Dermatitis (ACD) resulting from type IV hypersensitivity is suspected. **The indication is to test all patients in whom contact allergy is suspected** or needs to be ruled out, regardless of age or anatomical site of dermatitis.

Indications also include conditions that may mimic a contact allergic reaction and needs to be ruled out, such as:

- Erythema multiforme-like
- Lichen planus-like
- Psoriasis of the hands
 Granulomatous or
- Granulomatous or lymphomatoid reactions
- Worsening of pre-existing dermatitis (stasis, atopic or seborrhoeic dermatitis)
- Mucous membrane reactions (conjunctivitis, stomatitis, vulvitis)
- Discoid (nummular) eczema
- · Implant reactions
- Certain drug eruptions



Contraindications

Do not apply Patch Test Hapten (hereinafter referred to as "haptens") on patients undergoing cortisone treatment or taking other medication altering the immune system such

as immunosuppressive treatment.

Do not apply hapten on a patient with a known history of severe allergic reaction (local or systemic) to the hapten in question, on patients with severe or generalized active dermatitis or on patients with excited skin syndrome.

Do not apply hapten on unhealthy or injured skin or on a test area recently exposed to ultraviolet radiation (UV).

Do not apply hapten on patients with dermatitis on the upper back area aimed for the application of patch tests or on test sites recently treated with topical corticosteroids; wait at least 1 week after treatment.

Pregnancy and lactation may be a conditional contraindication as there are no data on the safety of the test for the mother and child.

Precautions Haptens:



- **Do** advise patient to protect the Patch Test Units from sunlight (UV radiation) during ongoing patch testing.
- **Do consider** priming each hapten contained in a syringe. Priming is done by discarding a single dose from the tip of the syringe and thereby possible evaporation/degradation of the active compound is avoided. If applications are done in a sequence, there is no need to prime before each new application.
- **Do** apply a recommended dose of 25 µl of hapten into the **IQ Ultra**™ / **IQ Ultimate**™ patch test chambers (25 µl equals to approximately a 5 mm string of petrolatum or a single drop of liquid).
- Do remember to put on the protective caps after each application.
- **Do not** switch protective caps between syringes. This may lead to contamination of the hapten applied onto the patch test chamber.

Volatile Hapten preparations (Fragrances and Acrylates) only:



- **Do not** preload volatile haptens. Apply hapten preparation into patch test chamber directly before application onto patient.
- Volatile haptens contained in syringes must be primed before application.

Clinical information

IQ Ultra™ / IQ Ultimate™:



• Wiping the test site with ethanol before application is important will improve adhesion of the Patch Test Unit on patients with oily skin. For patients with very dry or oily skin.

additional reinforcing tape might be required. Consider clipping the hair on the test site before patch test application for hairy patients.



 Exercise must be avoided during the patch test period. Additionally, water submersion and showers must be avoided if using the IQ Ultra™.

Patch test placement:

• Use the upper part of the patients back if possible. Avoid applying Patch Test Units to the midline and the scapula. Do not put any Patch Test Units under a brassiere shoulder band which can cause dislocation of the test units

Reactions

Normal reactions:

- In sensitized patients, exposure to haptens during the patch testing procedure will normally result in a miniature eczema (normal patch test reaction).
- In addition to the visual imprints on the skin from each chamber, a slight erythema from the frames should be visible as a sign of good occlusion. The erythema generally subsides within 30 minutes after removal of the test units. The erythema may however prevail for up to 24h or more for patients with sensitive skin.
- Itching and burning may occur at the site of application of the Patch Test Units; it can either be caused by a positive patch test reaction or due to tape irritation.

Adverse reactions:

· A strong positive reaction may result in a flare-up of an existing, or sometimes a previous, dermatitis. Such flare-up reactions usually indicate that the responsible hapten is or has been, respectively, the cause of the dermatitis. In rare occasions, acute allergic reactions including anaphylaxis may occur.

- Sensitization by patch testing is a rare but potential complication of patch testing. It is regarded as a positive patch test reaction generally 2 weeks after an initially negative response at the same patch test site. Rarely localized transient hyperpigmentation or hypopigmentation may occur.
- A positive patch test reaction can rarely persist for up to several weeks.
- Instruct patients to report any side effects.

Warnings

Patch Test Haptens:

- For topical use only. Avoid contact with eyes. Use only on intact skin
- IF SWALLOWED: Contact a Poison Control Center right away.
- ACUTE REACTIONS: Patients should be advised to seek immediate medical attention should they experience symptoms of acute allergic reaction after patch test application (trouble breathing or wheezing, a swollen tongue or throat, dizziness, fainting or altered pulse).

Patch test considerations:

- Patch testing for allergic contact dermatitis is a process involving 3 to 4 scheduled patient appointments within a one-week time-frame.
- The main reading should be performed within 48h of the removal of the Patch Test Units. A delayed response reading should be performed a full week after the initial test application for haptens that may show delayed reactions.



Day 0: Patch test application

(start of 48h hapten occlusion) Patch test removal (optional reading)

Day 2: Patch test rer
Day 3 or 4: Main reading
Day 7: Delayed resp Delayed response reading

Clinical information

The reading criteria for morphologically positive patch test reactions defined by the ICDRG is widely acknowledged and used as a reference when diagnosing contact allergic reactions. The reading criteria are visualized on the Reading Plate for IQ Ultra™/IQ Ultimate™.

Products

Contents:

Patch Test Haptens:

Patch Test Haptens are delivered as one or more types of hapten preparations contained in one of two different delivering devices. Patch Test Haptens are either contained in:

1. Hapten Dispensing Devices ("HDD"s) consisting of one (1) HDD syringe body, one (1) HDD plunger and one (1) HDD protective cap.
2. Dropper bottles consisting of one (1) bottle body, one (1) eye dropper and one (1) protective screw cap.

IQ Ultra™ / IQ Ultimate™:

Patch Test Units are delivered in sets of hundreds (100) and consist of ten (10) patch test chambers mounted on adhesive backing tape protected by a protective plastic cover.

Storage.

Patch Test Haptens: 2°C 8°C

Haptens must be stored protected from direct sunlight in a dry place refrigerated at 2-8°C. In rare occasions haptens (for instance P-038 and D-023B) must be stored frozen at ≤-18°C. Failure to store haptens as advised may affect the accuracy of the test results.

Please note that only haptens that are clearly marked may be stored at sub-zero temperatures.

IQ Ultra™ / IQ Ultimate™:

Patch Test Units must be stored dry at room temperature, protected from direct sunlight.

Expiry.

Patch Test Haptens:

The expiry date is printed on the label of the hapten and use beyond this date is not recommended to ensure a valid performance.

IQ Ultra™ / IQ Ultimate™:

The expiry date of the Patch Test Units is printed on the box. **IQ Ultra™** and **IQ Ultimate™** Patch Test Units are single use products and may not be re-used.

Disposal

Patch Test Haptens:

Emptied and cleaned Patch Test Hapten containers may be regarded as combustible waste and recycled following national regulations.

IQ Ultra™ / IQ Ultimate™:

Used patches should be folded with the sticky side inwards and disposed of following national regulations.

Reading











- IR Irritant reaction
 - · Discrete patchy erythema without infiltration
- +++ Extreme positive reaction
 - Coalescing vesicles
 Bullous or ulcerative reaction
- ++ Strong positive reaction
 - Erythema Infiltration Papules Discrete vesicles
- Weák positive reaction
 - Ervthema Infiltration Papules
- ?+ Doubtful reaction
 - Faint macular No infiltration Homogenous erythema

How much does a syringe/bottle contain?



A syringe contains 5 ml of hapten preparation and a bottle contains 8 ml.

How many patients can be tested per syringe/bottle? Approximately 150 patients/syringe and bottle.

Which volume should I dispense onto each patch test chamber?



25 μl. When applying haptens in petrolatum, dispense a string of around 5 mm into the IQ Patch Test Chamber (this corresponds to approximately 20 mg or about 25 μl).

For liquid haptens, the same amount (20-25 μ I) is produced by applying a single drop. Using a micropipette

is however preferred.

Why are some hapten names written in CAPITAL letters?

Haptens names written in CAPITAL letters indicate that they are **INCI*** names. The use of INCI names facilitates detection of haptens in cosmetic products.

For how long time can I store a preloaded Patch Test Unit?



Non-volatile haptens can be preloaded for up to two weeks. Preloaded Patch Tests Units must be stored refrigerated in air tight bags. Volatile substances (acrylates and fragrances) and liquid haptens can not be preloaded.

Is there any way to improve adhesion of the Patch Test Units?



The Chemotechnique Patch Test Units have excellent adhesive properties if applied correctly.

Make sure to always put pressure on the applied test unit with the palm of your hand for at least 5 seconds. The heat and pressure will ensure good

adhesion.

How long is the shelf life of the haptens?



The shelf life of a hapten depend on its composition. The shelf life is generally between **12-30 months** for petrolatum based haptens, and **8-12 months** for haptens based on aqua and ethanol. The expiration date is clearly marked on the label of each hapten.

^{*} INCI: International Nomenclature of Cosmetic Ingredients

C 1000

Compostion of International Baseline Series

Volatile hapten, not recommended for preloading

Erroman Pasalina Carias

EC Directive 2003/15/EC relating to cosmetic products

European Baseline Series			S-1000		
1. 2. 3.	Potassium dichromate p-PHENYLENEDIAMINE (PPD) Thiuram mix -Dipentamethylenethiuram disulfide (D-019) -Tetraethylthiuram disulfide (TETD) (T-002) -Tetramethylthiuram disulfide (TMTD) (T-005) -Tetramethylthiuram monosulfide (TMTM) (T-006)		pet pet pet	P-014A P-006 Mx-01	
4.	Neomycin sulfate	20.0	pet	N-001	
5.	Cobalt(II)chloride hexahydrate	1.0	pet	C-017A	
6.	Benzocaine	5.0	pet	B-004	
7.	Nickel(II)sulfate hexahydrate	5.0	pet	N-002A	
8.	Clioquinol	5.0	pet	C-015	
9.	COLOPHONIUM		pet	C-020	
10.	Paraben mix	16.0	pet	Mx-03C	
	-BUTYLPARABEN (B-020)	4.0			
	-ETHYLPARABEN (E-010)	4.0			
	-METHYLPARABEN (M-012)	4.0			
	-PROPYLPARABEN (P-020)	4.0			
11.	N-Isopropyl-N-phenyl-4-phenylenediamine (IPPD)	0.1	pet	I-004	
12.	LANOLIN ALCOHOL	30.0	pet	W-001	
13.	Mercapto mix	2.0	pet	Mx-05A	
	-N-Cyclohexyl-2-benzothiazolesulfenamide (C-023)	0.5			
	-Dibenzothiazyl disulfide (MBTS) (D-003)	0.5			

¹ Also present in European Baseline Series

² Emulsifier: SORBITAN SESQUIOLEATE 5%

³ Emulsifier: SORBITAN SESQUIOLEATE 1%

⁴ Emulsifier: SORBITAN SESQUIOLEATE 2%

⁵ Contains DECYL GLUCOSIDE

⁶ Divergent price, ask for quotation.

⁷ Present in national series. Visit www.chemotechnique.se for further information.

	Compound		Veh. /w)	Art. No.
	-2-Mercaptobenzothiazole (MBT) (M-003) -2-(4-Morpholinylmercapto)benzothiazol (MOR) (M-016)	0.5 0.5	·,	
14.	Epoxy resin, Bisphenol A	1.0	pet	E-002
15.		25.0	pet	B-001
16.	4-tert-Butylphenolformaldehyde resin (PTBP)	1.0	pet	B-024
17.	2-Mercaptobenzothiazole (MBT)	2.0	pet	M-003A
18.	FORMALDEHYDE ⊗	2.0	aq	F-002B
19.	Fragrance mix I ² 🗞	8.0	pet	Mx-07
	-AMYL CINNAMAL (A-014)	1.0		
	-CINNAMYL ALCOHOL (C-013) ❷	1.0		
	-CINNAMAL (C-014)	1.0		
	-EUGENOL (E-016) ❷	1.0		
	-GERANIOL (G-001) Ø	1.0		
	-HYDROXYCITRONELLAL (H-008)	1.0		
	-ISOEUGENOL (I-002) ❷	1.0		
	-Oakmoss absolute (O-001) ❷	1.0		
20.	1 1	0.1	pet	Mx-18
	-Alantolactone (A-003)	0.03		
	-Costunolide (C-039)	0.03		
	-Dehydrocostus lactone (D-056)	0.03		
21.		1.0	pet	C-007A
22.		0.01	•	M-008
23.		0.02	aq	C-009B
	METHYLCHLOROISOTHIAZOLINONE < ⊘			
	Budesonide	0.01	•	B-033B
25.	Tixocortol-21-pivalate	0.1	pet	T-031B
26.		0.5	pet	D-049E
27.	Fragrance mix II	14.0	pet	Mx-25
	-Hexyl cinnamic aldehyde (H-025)	5.0		
	-COUMARIN (C-038)	2.5		
	-FARNESOL (F-004)	2.5		
	-HYDROXYISOHEXYL 3-CYCLOHEXENE	2.5		
	CARBOXALDEHYDE (L-003)	4.0		
	-CITRAL (C-036)	1.0		
20	-CITRONELLOL (C-037) AND DO YME OF THE STATE OF THE ST	0.5	not	1 002
28.	HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE	5.0	pet	L-003
29.	METHYLISOTHIAZOLINONE <	0.2	20	M-035B
29. 30.	Textile dye mix	0.2 6.6	aq	Mx-30
30.		1.0	pet	IVIX-3U
	-Diperse Blue 35 (D-027)	1.0		

Compound	Conc. Veh. Art. No. %(w/w)
-Diperse Orange 1 (D-031)	1.0
-DISPERSE ORANGE 3 (D-032)	1.0
-Disperse Red 1 (D-034)	1.0
-DISPERSE RED 17 (D-035)	1.0
-Disperse Yellow 3 (D-036)	1.0
-Disperse Blue 106 (D-040)	0.3
-Disperse Blue 124 (D-041)	0.3
	Revised January 2015

International Standard Series IS-1000

1. 2. 3.	Potassium dichromate¹ Neomycin sulfate¹ Thiuram mix¹ -Dipentamethylenethiuram disulfide (D-019) -Tetraethylthiuram disulfide (TETD) (T-002) -Tetramethylthiuram disulfide (TMTD) (T-005) -Tetramethylthiuram monosulfide (TMTM) (T-006)	1.0 0.25 0.25 0.25	pet pet pet	P-014A N-001 Mx-01
4.	p-PHENYLENEDIAMINE (PPD) ¹	1.0	pet	P-006
5.	FORMALDEHYDE¹ ⊗	2.0	aq	F-002B
6.	COLOPHONIUM ¹	20.0		C-020
7.	Peru balsam ^{1,2}		pet	B-001
8.	LANOLIN ALCOHOL ¹		pet	W-001
9.	Mercapto mix ¹ -N-Cyclohexyl-2-benzothiazolesulfenamide	2.0	pet	Mx-05A
	(C-023)	0.5		
	-Dibenzothiazyl disulfide (MBTS) (D-003)	0.5		
	-2-Mercaptobenzothiazole (MBT) (M-003)	0.5		
	-2-(4-Morpholinylmercapto)benzothiazol	0.5		
	(MOR) (M-016)			
10.	1 2 ' 1	1.0	pet	E-002
11.	4-tert-Butylphenolformaldehyde resin (PTBP)		pet	B-024
12.	3	8.0	pet	Mx-07
	-AMYL CINNAMAL (A-014)	1.0 1.0		
	-CINNAMYL ALCOHOL (C-013) ② -CINNAMAL (C-014) ②	1.0		
	-EUGENOL (E-016) @	1.0		
	-EGGENOL (E-010) € -GERANIOL (G-001) €	1.0		
	-HYDROXYCITRONELLAL (H-008)	1.0		
	-ISOEUGENOL (I-002) Ø	1.0		
	-Oakmoss absolute (O-001)	1.0		
	,			25

	Compound	Conc. %(w		Art. No.
13.	Nickel(II)sulfate hexahydrate	2.5	pet	N-002B
14.	2-Mercaptobenzothiazole (MBT) ¹	2.0	pet	M-003A
15.	Budesonide ¹	0.01	pet	B-033B
16.	QUATERNIUM-15	2.0	pet	C-007B
17.	METHYLISOTHIAZOLINONE +	0.02	aq	C-009B
	METHYLCHLORO-ISOTHIAZOLINONE ❷		•	
18.	IMIDAZOLIDINYL UREA ⊗	2.0	aq	I-001B
19.	Tixocortol-21-pivalate ¹	0.1	pet	T-031B
20.	METHYLDIBROMO GLUTARONITRILE	0.3	pet	D-049A
21.	Carba mix	3.0	pet	Mx-06
	-1,3-Diphenylguanidine (D-022)	1.0	•	
	-ZINC DIBUTYLDITHIOCARBAMATE	1.0		
	(ZBC) (Z-002)			
	-Zinc diethyldithiocarbamate (ZDC) (Z-003)	1.0		
22.	Cobalt(II)chloride hexahydrate ¹	1.0	pet	C-017A
23.	• •	5.0	pet	Mx-29A
	-Anthemis nobilis extract (C-029) ֎	1.2	•	
	-Chamomilla recutita extract (C-051) ❷	1.2		
	-Achillea millefolium extract (A-025)	1.0		
	-Tanacetum vulgare extract (T-033) ፟	1.0		
	-Arnica montana extract (A-024) 🗞	0.5		
	-Parthenolide (P-029)	0.1		
24.	DIAZOLIDINYL UREA	2.0	pet	D-044A
25.	Fragrance mix II¹ <a>®	14.0	pet	Mx-25
	-Hexyl cinnamic aldehyde (H-025)	5.0		
	-COUMARIN (C-038)	2.5		
	-FARNESOL (F-004)	2.5		
	-HYDROXYISOHEXYL 3-CYCLOHEXENE	2.5		
	CARBOXALDEHYDE (L-003)			
	-CITRAL (C-036)	1.0		
	-CITRONELLOL (C-037)	0.5		
26.	,	1.0	pet	H-021B
27.	HYDROXYISOHEXYL 3-CYCLOHEXENE	5.0	pet	L-003
	CARBOXALDEHYDE ¹			
28.	N-Isopropyl-N-phenyl-4-phenylenediamine (IPPD) ¹	0.1	pet	I-004
29.	<u>`</u>	16.0	pet	Mx-03C
	-BUTYLPARABEN (B-020)	4.0		
		4.0		
	-PROPYLPARABEN (P-020)	4.0		
	-ETHYLPARABEN (E-010) -METHYLPARABEN (M-012) -PROPYLPARABEN (P-020)	4.0 4.0		

Compo	ound	Conc %(v		Art. No.
30. Sesquit	erpene lactone mix¹	0.1	pet	Mx-18
-Alanto	plactone (A-003)	0.03	33	
-Costu	nolide (C-039)	0.03	33	
-Dehyd	frocostus lactone (D-056)	0.03	33	
31. Toluene	sulfonamide formaldehyde resin	10.0) pet	T-010
32. METHY	'LISOTHIAZOLINONE¹ ❷	0.2	aq	M-035B
	R	evised .	Janua	ry 2014

International Comprehensive Baseline Series ICB-1000

1. 2. 3. 4. 5. 6. 7.	Benzocaine¹ 2-Mercaptobenzothiazole (MBT) COLOPHONIUM¹ p-PHENYLENEDIAMINE (PPD)¹ IMIDAZOLIDINYL UREA CINNAMAL Amerchol L-101 Carba mix -1,3-Diphenylguanidine (D-022) -ZINC DIBUTYLDITHIOCARBAMATE (ZBC) (Z-002)	5.0 1.0 20.0 1.0 2.0 1.0 50.0 3.0 1.0	pet pet pet	B-004 M-003B C-020 P-006 I-001A C-014 A-004 Mx-06
9. 10.	-Zinc diethyldithiocarbamate (ZDC) (Z-003) Neomycin sulfate¹ Thiuram mix¹ -Dipentamethylenethiuram disulfide (D-019) -Tetraethylthiuram disulfide (TETD) (T-002) -Tetramethylthiuram disulfide (TMTD) (T-005) -Tetramethylthiuram monosulfide (TMTM) (T-006)		pet pet	N-001 Mx-01
11. 12. 13. 14. 15. 16.	Clobetasol-17-propionate Ethylenediamine dihydrochloride Epoxy resin, Bisphenol A¹ QUATERNIUM-15¹ 4-tert-Butylphenolformaldehyde resin (PTBP)¹	1.0 0.25 0.25	pet pet pet pet pet pet	C-028 E-005 E-002 C-007B B-024 Mx-05B

	Compound	Conc. %(w		Art. No.
17.	1,3-Diphenylguanidine	1.0	pet	D-022
18.	Potassium dichromate	0.25	pet	P-014B
19.	Peru balsam ^{1,2} ⊘	25.0	pet	B-001
20.	Nickel(II)sulfate hexahydrate	2.5	pet	N-002B
21.	DIAZOLÍDINYL UREA	1.0	pet	D-044C
22.	TOCOPHEROL ⊘	100		T-036
23.	Bacitracin	20.0	pet	B-032B
24.	Mixed dialkyl thiourea	1.0	pet	Mx-24
	-N,N'-Dibutylthiourea (D-038)	0.5		
	-N,N'-Diethylthiourea (D-039)	0.5		
25.	DISPERSE ORANGE 3	1.0	pet	D-032
26.	Paraben mix	12.0	pet	Mx-03A
	-BUTYLPARABEN (B-020)	3.0		
	-ETHYLPARABEN (E-010)	3.0		
	-METHYLPARABEN (M-012)	3.0		
	-PROPYLPARABEN (P-020)	3.0		
27.	METHYLDIBROMO GLUTARONITRILE ¹	0.5	pet	D-049E
28.	Fragrance mix I ^{1,2} 🗞	8.0	pet	Mx-07
	-AMYL CINNAMAL (A-014)	1.0		
	-CINNAMYL ALCOHOL (C-013)	1.0		
	-CINNAMAL (C-014) ⊘	1.0		
	-EUGENOL (E-016) 🗞	1.0		
	-GERANIOL (G-001) Ø	1.0		
	-HYDROXYCITRONELLAL (H-008)	1.0		
	-ISOEUGENOL (I-002) ❷	1.0		
	-Oakmoss absolute (O-001) ❷	1.0		
29.		0.5	pet	G-003B
	2-BROMO-2-NITROPROPANE-1,3-DIOL	0.5	pet	B-015B
31.	Sesquiterpene lactone mix ¹	0.1	pet	Mx-18
	-Alantolactone (A-003)	0.03		
	-Costunolide (C-039)	0.03		
	-Dehydrocostus lactone (D-056)	0.03	3	
32.	THIMEROSAL	0.1	pet	T-007
33.	Propolis	10.0	•	P-022
34.	BENZOPHENONE-3	10.0	•	H-014C
	CHLOROXYLENOL (PCMX)	1.0	pet	C-010B
36.		5.0	pet	Mx-16
	-Dimethylol dihydroxy ethylene urea (D-012) €			
	-Melamine formaldehyde (M-001) ⊘	1.0		
	2-tert-Butyl-4-methoxyphenol (BHA)	2.0	pet	B-022
38.	Gold(I)sodium thiosulfate dihydrate	0.5	pet	G-005A

	Compound	Conc. %(w		Art. No.
39.	Ethyl acrylate ❷	0.1	pet	E-004
40.	GLYCERYL THIOGLYCOLATE ⊗	1.0	pet	G-004
41.	Toluenesulfonamide formaldehyde resin	10.0	pet	T-010
42.	Methyl methacrylate 🗞	2.0	pet	M-013
43.	- ()	1.0	pet	C-017A
44.		1.0	pet	T-031A
	Budesonide	0.1	pet	B-033A
	COCAMIDE DEA	0.5	pet	C-019
47.	TRIETHANOLAMINE	2.0	pet	T-016
48.	Textile dye mix ¹	6.6	pet	Mx-30
	-Diperse Blue 35 (D-027)	1.0		
	-Diperse Orange 1 (D-031)	1.0		
	-DISPERSE ORANGE 3 (D-032)	1.0		
	-Disperse Red 1 (D-034)	1.0		
	-DISPERSE RED 17 (D-035)	1.0		
	-Disperse Yellow 3 (D-036) -Disperse Blue 106 (D-040)	1.0		
	-Disperse Blue 100 (D-040) -Disperse Blue 124 (D-041)	0.3		
49.	• • • • • • • • • • • • • • • • • • • •	5.0	pet	T-035B
4 9.		14.0		Mx-25
50.	-Hexyl cinnamic aldehyde (H-025)	5.0	pcı	IVIX-20
	-COUMARIN (C-038)	2.5		
	-FARNESOL (F-004)	2.5		
	-HYDROXYISOHEXYL 3-CYCLOHEXENE	2.5		
	CARBOXALDEHYDE (L-003)			
	-CITRAL (C-036)	1.0		
	-CITRONÈLLOL (C-037)	0.5		
51.		1.0	pet	D-036
52.	BENZYL SALICYLATE	10.0	pet	B-010B
	DECYL GLUCOSIDE⁴	5.0	pet	D-065
	METHYLISOTHIAZOLINONE¹ ❷	0.2	aq	M-035B
	2-Hydroxyethyl methacrylate <a> 	2.0	pet	H-010
	DMDM HYDANTOIN³ ②	1.0	pet	D-047B
	Ylang ylang oil 🏖	2.0	pet	Y-001
58.		10.0		B-008B
59.		20.0	•	I-003
	Hydroperoxides of Limonene @	0.3	pet	H-032A
	Desoximetasone	1.0	pet	D-057
	POLYSORBATE 80	5.0	pet	P-013
	IODOPROPYNYL BUTYLCARBAMATE	0.2	pet	I-008C
64.	2-n-Octyl-4-isothiazolin-3-one <a>⊗	0.1	pet	O-004

	Compound	Conc. %(w		Art. No.
65.	Disperse Blue mix 106/124	1.0	pet	Mx-26
	-Disperse Blue 106 (D-040)	0.5		
	-Disperse Blue 124 (D-041)	0.5		
66.	Compositae mix II ⊘	5.0	pet	Mx-29A
	-Anthemis nobilis extract (C-029) ❷	1.2		
	-Chamomilla recutita extract (C-051) ❷	1.2		
	-Achillea millefolium extract (A-025)	1.0		
	-Tanacetum vulgare extract (T-033) 🗞	1.0		
	-Arnica montana extract (A-024) 🗞	0.5		
	-Parthenolide (P-029)	0.1		
67.	Elaboanio	15.0	pet	L-002B
68.		2.0	pet	F-003
69.	,	2.5	pet	D-005B
70.	Benzoylperoxide	1.0	pet	B-007
71.		10.0	pet	I-009
72.	HYDROXYISOHEXYL 3-CYCLOHEXENE	5.0	pet	L-003
	CARBOXALDEHYDE ¹			
73.		5.0	pet	O-007A
74.	,	1.0	pet	H-031A
75.	Amidoamine ②	0.1	aq	A-029
	COCAMIDOPROPYL BETAINE 🗞	1.0	aq	C-018
77.	FORMALDEHYDE¹ ⊘	2.0	aq	F-002B
78.	METHYLISOTHIAZOLINONE +	0.02	aq	C-009B
	METHYLCHLOROISOTHIAZOLINONE¹			
	PROPYLENE GLYCOL	30.0	aq	P-019B
80.	OLEAMIDOPROPYL DIMETHYLAMINE @		aq	O-005
	Revi	sed J	anuar	y 2018

Latin American Baseline Series LA-1000

1.	Potassium dichromate ¹	0.5	pet	P-014A
2.	p-PHENYLENEDIAMINE (PPD) ¹	1.0	pet	P-006
3.	Thiuram mix ¹	1.0	pet	Mx-01
	-Dipentamethylenethiuram disulfide (D-019)	0.25		
	-Tetraethylthiuram disulfide (TETD) (T-002)	0.25		
	-Tetramethylthiuram disulfide (TMTD) (T-005)	0.25		
	-Tetramethylthiuram monosulfide (TMTM) (T-006)	0.25		
4.	Neomycin sulfate ¹	20.0	pet	N-001
5.	Cobalt(II)chloride hexahydrate ¹	1.0	pet	C-017A

	Compound	Conc. %(w/		Art. No.
6.	Caine mix III -Benzocaine (B-004) -Dibucaine hydrochloride (D-005) -Tetracaine hydrochloride (T-025)	10.0 5.0 2.5 2.5	pet	Mx-19
7. 8. 9. 10.	Nickel(II)sulfate hexahydrate ¹ Clioquinol ¹ COLOPHONIUM ¹ Paraben mix ¹ -BUTYLPARABEN (B-020) -ETHYLPARABEN (E-010) -METHYLPARABEN (M-012) -PROPYLPARABEN (P-020)	5.0 5.0 20.0 16.0 4.0 4.0 4.0 4.0	•	N-002A C-015 C-020 Mx-03C
11.	N-Isopropyl-N-phenyl-4-phenylenediamine (IPPD) ¹	0.1	pet	I-004
	LANOLIN ALCOHOL ¹ Mercapto mix ¹ -N-Cyclohexyl-2-benzothiazolesulfenamide (C-023)	30.0 2.0 0.5	pet pet	W-001 Mx-05A
	-Dibenzothiazyl disulfide (MBTS) (D-003) -2-Mercaptobenzothiazole (MBT) (M-003) -2-(4-Morpholinylmercapto)benzothiazol (MOR) (M-016)	0.5 0.5 0.5		
15. 16. 17.	Epoxy resin, Bisphenol A¹ Peru balsam¹.² ② 4-tert-Butylphenolformaldehyde resin (PTBP)¹ 2-Mercaptobenzothiazole (MBT)¹ FORMALDEHYDE ③	1.0 25.0 1.0 2.0 1.0	pet pet pet pet pet	E-002 B-001 B-024 M-003A F-002C
19.	Fragrance mix I ^{1,2} -AMYL CINNAMAL (A-014) -CINNAMYL ALCOHOL (C-013) -CINNAMAL (C-014) -EUGENOL (E-016) -GERANIOL (G-001) -HYDROXYCITRONELLAL (H-008) -ISOEUGENOL (I-002) -Oakmoss absolute (O-001)	1.0 8.0 1.0 1.0 1.0 1.0 1.0 1.0	pet	Mx-07
20.	Sesquiterpene lactone mix ¹ -Alantolactone (A-003) -Costunolide (C-039) -Dehydrocostus lactone (D-056)	0.1 0.03 0.03 0.03	3	Mx-18
21.	QUATERNIUM-15 ¹	1.0	pet	C-007A

	Compound	Conc. %(w/		Art. No.
22. 23.	2-Methoxy-6-n-pentyl-4-benzoquinone METHYLISOTHIAZOLINONE + METHYLCHLOROISOTHIAZOLINONE	0.01		M-008 C-009A
	Budesonide ¹ Tixocortol-21-pivalate ¹	0.01 0.1 0.5	pet pet pet	B-033B T-031B D-049E
27.		14.0 5.0 2.5		Mx-25
	-FARNESOL (F-004) -HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE (L-003)	2.5		
	-CITRAL (C-036) -CITRONELLOL (C-037) ❷	1.0		
28.	HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE ¹	5.0	pet	L-003
29.	,	10.0	-	T-010
30.		1.0	aq	C-018
31.		2.0	pet	D-044A
	PROPYL GALLATE	1.0	pet	P-021
	Sodium tetrachloropalladate(II) hydrate	3.0	pet	S-017
	THIMEROSAL	0.1	pet	T-007
35.		1.0	pet	Mx-26
	-Disperse Blue 106 (D-040)	0.5		
00	-Disperse Blue 124 (D-041)	0.5		
36.	,	1.0	pet	Mx-24
	-N,N'-Dibutylthiourea (D-038)	0.5		
37.	-N,N'-Diethylthiourea (D-039)	0.5		MOSED
37. 38.		0.2	aq	M-035B Mx-06
JO.	-1,3-Diphenylguanidine (D-022)	3.0	pet	IVIX-UO
	-1,3-Diprientyiguariidine (D-022) -ZINC DIBUTYLDITHIOCARBAMATE (ZBC) (Z-002)	1.0		
	-Zinc diethyldithiocarbamate (ZDC) (Z-003)	1.0		
39.	,	1.0	pet	H-021B
40.	IMIDAZOLIDINYL UREA	2.0 New	pet series	I-001A s 2015

Compound

Conc. Veh. Art. No. %(w/w)

North American Baseline Series NA-1000

1. 2.	Benzocaine¹ Textile dye mix¹ -Diperse Blue 35 (D-027) -Diperse Orange 1 (D-031) -DISPERSE ORANGE 3 (D-032) -Disperse Red 1 (D-034) -DISPERSE RED 17 (D-035) -Disperse Yellow 3 (D-036) -Disperse Blue 106 (D-040) -Disperse Blue 124 (D-041)	5.0 6.6 1.0 1.0 1.0 1.0 1.0 0.3	pet pet	B-004 Mx-30
3.	COLOPHONIUM ¹	20.0	•	C-020
4. 5.	p-PHENYLENEDIAMINE (PPD) ¹ IMIDAZOLIDINYL UREA	1.0	pet	P-006 I-001A
5. 6.	CINNAMAI 🔊	1.0	pet pet	C-014
7.	Amerchol L-101	50.0		A-004
8.	Carba mix	3.0	pet	Mx-06
	-1,3-Diphenylguanidine (D-022)	1.0		
	-ZÍNC DIBUTYLDITHIOCARBÁMATE (ZBC) (Z-002)	1.0		
	-Zinc diethyldithiocarbamate (ZDC) (Z-003)	1.0		
9.	Neomycin sulfate ¹	20.0	pet	N-001
10.		1.0	pet	Mx-01
	-Dipentamethylenethiuram disulfide (D-019)	0.25		
	-Tetraethylthiuram disulfide (TETD) (T-002)	0.25		
	-Tetramethylthiuram disulfide (TMTD) (T-005) -Tetramethylthiuram monosulfide (TMTM) (T-006)	0.25		
11.		2.0	aq	F-002B
12.	Ethylenediamine dihydrochloride	1.0	pet	E-005
13.	1 7 ' 1	1.0	pet	E-002
14.		2.0	pet	C-007B
15.	<i>y</i> , , , , , , , , , , , , , , , , , , ,		pet	B-024
	Ylang ylang oil 2	2.0	pet	Y-001
17.	1,3-Diphenylguanidine Potassium dichromate	1.0	pet	D-022 P-014B
	Peru balsam ^{1,2} 2	0.25 25.0		B-001
	Nickel(II)sulfate hexahydrate	2.5	pet	N-002B
21.	DIAZOLIDINYL UREA	1.0	pet	D-044C

22. DMDM HYDANTOIN 23. Bacitracin 24. Mixed dialkyl thiourea -N,N'-Dibutylthiourea (D-038) -N,N'-Diethylthiourea (D-039) 25. METHYLISOTHIAZOLINONE + METHYLCHLOROISOTHIAZOLINONE 26. Paraben mix -BUTYLPARABEN (B-020) -ETHYLPARABEN (E-010) -METHYLPARABEN (F-020) -PROPYLPARABEN (P-020) 27. METHYLDIBROMO GLUTARONITRILE 28. Fragrance mix I¹² № -AMYL CINNAMAL (A-014) -CINNAMYL ALCOHOL (C-013) № -ISOEUGENOL (E-016) № -GERANIOL (G-001) № -HYDROXYCITRONELLAL (H-008) -ISOEUGENOL (I-002) № -Oakmoss absolute (O-001) № -Dehydrocostus lactone (D-056) -COSTUNONEL (C-038) -COSTUNONEL (C-038) -COUMARIN (C-038) -FARNESOL (F-004) -COUMARIN (C-038) -FARNESOL (F-004) -CORNBOXLDEHYDE (L-003) -CARBOXALDEHYDE (L-003) -CITRAL (C-036) -CARBOXALDEHYDE (L-003) -CITRAL (C-036) -COTOMAN (C-038) -COTOMAN (C-038) -CARBOXALDEHYDE (L-003) -CITRAL (C-036) -COTOMAN (C-038) -CITRAL (C-036) -COTOMAN (C-038) -CITRAL (C-036) -CITRAL (C-036) -COTOMAN (C-038) -CITRAL (C-036) -CITRAL (C-036) -COTOMAN (C-038) -CITRAL (C-036) -CITRAL (C-036) -COUMARIN (C-038) -CITRAL (C-036) -CITRAL (C-036) -COTOMAN (C-036) -COTOMAN (C-036) -CITRAL (C-036) -COTOMAN (C-036) -CITRAL (C-036) -COTOMAN (C-036) -COTOMAN (C-036) -COTOMAN (C-036) -CITRAL (C-036) -COTOMAN		Compound	Conc. %(w		Art. No.
24. Mixed dialkyl thiourea	22.	DMDM HYDANTOIN	1.0	pet	D-047B
-N,N'-Dibutylthiourea (D-038) 0.5 -N,N'-Diethylthiourea (D-039) 0.5 25. METHYLISOTHIAZOLINONE + 0.02 aq C-009B METHYLCHLOROISOTHIAZOLINONE¹ 20 26. Paraben mix 12.0 pet Mx-03A -BUTYLPARABEN (B-020) 3.0 -ETHYLPARABEN (E-010) 3.0 -METHYLPARABEN (M-012) 3.0 -PROPYLPARABEN (P-020) 3.0 27. METHYLDIBROMO GLUTARONITRILE¹ 0.5 pet Mx-07 -AMYL CINNAMAL (A-014) 1.0 -CINNAMYL ALCOHOL (C-013) 20 1.0 -CINNAMYL ALCOHOL (C-013) 20 1.0 -GERANIOL (G-016) 20 1.0 -GERANIOL (G-001) 20 1.0 -ISOEUGENOL (I-002) 20 1.0 -Oakmoss absolute (O-001) 20 1.0 29. GLUTARAL² 20 1.0 -Oakmoss absolute (O-001) 20 1.0 29. GLUTARAL² 20 0.5 pet B-015B 31. Sesquiterpene lactone mix¹ 0.1 pet Mx-18 -Alantolactone (A-003) 0.033 -Costunolide (C-039) 0.033 -Costunolide (C-039) 0.033 -Dehydrocostus lactone (D-056) 0.033 32. Fragrance mix II 20 14.0 pet Mx-25 -Hexyl cinnamic aldehyde (H-025) 5.0 -COUMARIN (C-038) 2.5 -FARNESOL (F-004) 2.5 -CARBOXALDEHYDE (L-003) -CITRAL (C-036) 1.0					
-N,N'-Diethylthiourea (D-039) 0.5 25. METHYLISOTHIAZOLINONE + METHYLCHLOROISOTHIAZOLINONE 20.02 aq C-009B METHYLCHLOROISOTHIAZOLINONE 20.02 aq C-009B METHYLPARABEN (B-020) 3.0 -ETHYLPARABEN (E-010) 3.0 -ETHYLPARABEN (M-012) 3.0 -PROPYLPARABEN (P-020) 3.0 27. METHYLDIBROMO GLUTARONITRILE 0.5 pet Mx-07 -AMYL CINNAMAL (A-014) 1.0 -CINNAMYL ALCOHOL (C-013) 2 1.0 -CINNAMYL ALCOHOL (C-013) 2 1.0 -EUGENOL (E-016) 2 1.0 -GERANIOL (G-001) 2 1.0 -GERANIOL (G-001) 2 1.0 -GERANIOL (G-001) 2 1.0 -Oakmoss absolute (O-001) 2 1.0 -Oakmoss abs	24.			pet	Mx-24
25. METHYLISOTHIAZOLINONE +					
METHYLCHLOROISOTHIAZOLINONE¹					
26. Paraben mix	25.		0.02	aq	C-009B
-BUTYLPARABEN (B-020) -ETHYLPARABEN (E-010) -METHYLPARABEN (M-012) -PROPYLPARABEN (P-020) 27. METHYLDIBROMO GLUTARONITRILE¹ 0.5 pet D-049E 28. Fragrance mix I¹² № 8.0 pet Mx-07 -AMYL CINNAMAL (A-014) 1.0 -CINNAMYL ALCOHOL (C-013) № 1.0 -CINNAMAL (C-014) № 1.0 -EUGENOL (E-016) № 1.0 -GERANIOL (G-001) № 1.0 -HYDROXYCITRONELLAL (H-008) 1.0 -ISOEUGENOL (I-002) № 1.0 -Oakmoss absolute (O-001) № 1.0 29. GLUTARAL² № 0.5 pet G-003B 30. 2-BROMO-2-NITROPROPANE-1,3-DIOL 0.5 pet B-015B 31. Sesquiterpene lactone mix¹ 0.1 pet Mx-18 -Alantolactone (A-003) 0.033 -Costunolide (C-039) 0.033 -Costunolide (C-039) 0.033 32. Fragrance mix II¹ № 14.0 pet Mx-25 -Hexyl cinnamic aldehyde (H-025) 5.0 -COUMARIN (C-038) 2.5 -FARNESOL (F-004) 1.0 -CITRAL (C-036) 1.0	26		12.0	not	My 03A
-ETHYLPARABEN (E-010) 3.0 -METHYLPARABEN (M-012) 3.0 -PROPYLPARABEN (P-020) 3.0 27. METHYLDIBROMO GLUTARONITRILE¹ 0.5 pet D-049E 28. Fragrance mix I¹² 8.0 pet Mx-07 -AMYL CINNAMAL (A-014) 1.0 -CINNAMYL ALCOHOL (C-013) 1.0 -CINNAMYL ALCOHOL (C-013) 1.0 -EUGENOL (E-016) 1.0 -EUGENOL (E-016) 1.0 -GERANIOL (G-001) 1.0 -HYDROXYCITRONELLAL (H-008) 1.0 -ISOEUGENOL (I-002) 1.0 -Oakmoss absolute (O-001) 1.0 29. GLUTARAL² 5.0 -Casquiterpene lactone mix¹ 0.1 pet Mx-18 -Alantolactone (A-003) 0.033 -Costunolide (C-039) 0.033 -Costunolide (C-039) 0.033 32. Fragrance mix II¹ 14.0 pet Mx-25 -Hexyl cinnamic aldehyde (H-025) 5.0 -COUMARIN (C-038) 2.5 -FARNESOL (F-004) 1.0 -CITRAL (C-036) 1.0	20.			her	IVIX-USA
-METHYLPARABEN (M-012) 3.0 -PROPYLPARABEN (P-020) 3.0 27. METHYLDIBROMO GLUTARONITRILE¹ 0.5 pet D-049E 28. Fragrance mix I¹² 8.0 pet Mx-07 -AMYL CINNAMAL (A-014) 1.0 -CINNAMYL ALCOHOL (C-013) 1.0 -CINNAMYL ALCOHOL (C-013) 1.0 -EUGENOL (E-016) 1.0 -GERANIOL (G-001) 1.0 -HYDROXYCITRONELLAL (H-008) 1.0 -ISOEUGENOL (I-002) 1.0 -Oakmoss absolute (O-001) 1.0 29. GLUTARAL² 1.0 -Oakmoss absolute (O-001) 1.0 29. GSUTARAL² 1.0 -Alantolactone mix¹ 0.1 pet Mx-18 -Alantolactone (A-003) 0.033 -Costunolide (C-039) 0.033 -Costunolide (C-039) 0.033 -Dehydrocostus lactone (D-056) 0.033 32. Fragrance mix II¹ 14.0 pet Mx-25 -Hexyl cinnamic aldehyde (H-025) 5.0 -COUMARIN (C-038) 2.5 -FARNESOL (F-004) 2.5 -ARBOXALDEHYDE (L-003) -CITRAL (C-036) 1.0					
-PROPYLPARABEN (P-020) 3.0 27. METHYLDIBROMO GLUTARONITRILE¹ 0.5 pet D-049E 28. Fragrance mix I¹² 8.0 pet Mx-07 -AMYL CINNAMAL (A-014) 1.0 -CINNAMYL ALCOHOL (C-013) 1.0 -CINNAMAL (C-014) 1.0 -EUGENOL (E-016) 1.0 -GERANIOL (G-001) 1.0 -HYDROXYCITRONELLAL (H-008) 1.0 -ISOEUGENOL (I-002) 1.0 -Oakmoss absolute (O-001) 1.0 29. GLUTARAL² 1.0 29. GLUTARAL² 1.0 -Alantolactone (A-003) 0.5 pet B-015B 31. Sesquiterpene lactone mix¹ 0.1 pet Mx-18 -Alantolactone (A-003) 0.033 -Costunolide (C-039) 0.033 -Dehydrocostus lactone (D-056) 0.033 32. Fragrance mix II¹ 14.0 pet Mx-25 -Hexyl cinnamic aldehyde (H-025) 5.0 -COUMARIN (C-038) 2.5 -FARNESOL (F-004) 2.5 CARBOXALDEHYDE (L-003) -CITRAL (C-036) 1.0					
27. METHYLDIBROMO GLUTARONITRILE¹ 0.5 pet D-049E 28. Fragrance mix I¹²					
28. Fragrance mix I¹² № 8.0 pet Mx-07 -AMYL CINNAMAL (A-014) 1.0 -CINNAMYL ALCOHOL (C-013) № 1.0 -CINNAMAL (C-014) № 1.0 -EUGENOL (E-016) № 1.0 -GERANIOL (G-001) № 1.0 -HYDROXYCITRONELLAL (H-008) 1.0 -ISOEUGENOL (I-002) № 1.0 -Oakmoss absolute (O-001) № 1.0 29. GLUTARAL² № 0.5 pet G-003B 30. 2-BROMO-2-NITROPROPANE-1,3-DIOL 0.5 pet B-015B 31. Sesquiterpene lactone mix¹ 0.1 pet Mx-18 -Alantolactone (A-003) 0.033 -Costunolide (C-039) 0.033 -Costunolide (C-039) 0.033 32. Fragrance mix II¹ № 14.0 pet Mx-25 -Hexyl cinnamic aldehyde (H-025) 5.0 -COUMARIN (C-038) 2.5 -FARNESOL (F-004) 2.5 CARBOXALDEHYDE (L-003) -CITRAL (C-036) 1.0	27			net	D_049F
-AMYL CINNAMAL (A-014) 1.0 -CINNAMYL ALCOHOL (C-013) 1.0 -CINNAMAL (C-014) 1.0 -EUGENOL (E-016) 1.0 -EUGENOL (G-001) 1.0 -GERANIOL (G-001) 1.0 -HYDROXYCITRONELLAL (H-008) 1.0 -ISOEUGENOL (I-002) 1.0 -Oakmoss absolute (O-001) 1.0					
-CINNAMYL ALCOHOL (C-013)	20.			pot	WIX O7
-CINNAMAL (C-014)					
-EUGENOL (E-016)					
-GERANIOL (G-001)			1.0		
-HYDROXYCITRONELLAL (H-008) 1.0 -ISOEUGENOL (I-002) 1.0 -Oakmoss absolute (O-001) 1.0 29. GLUTARAL² 05. pet G-003B 30. 2-BROMO-2-NITROPROPANE-1,3-DIOL 0.5 pet B-015B 31. Sesquiterpene lactone mix¹ 0.1 pet Mx-18 -Alantolactone (A-003) 0.033 -Costunolide (C-039) 0.033 -Dehydrocostus lactone (D-056) 0.033 32. Fragrance mix II¹ 14.0 pet Mx-25 -Hexyl cinnamic aldehyde (H-025) 5.0 -COUMARIN (C-038) 2.5 -FARNESOL (F-004) 2.5 -HYDROXYISOHEXYL 3-CYCLOHEXENE 2.5 CARBOXALDEHYDE (L-003) -CITRAL (C-036) 1.0			1.0		
-Oakmoss absolute (O-001)			1.0		
29. GLUTARAL ²		-ISOEUGENOL (I-002) Ô	1.0		
30. 2-BROMO-2-NITROPROPANE-1,3-DIOL 31. Sesquiterpene lactone mix¹ -Alantolactone (A-003) -Costunolide (C-039) -Dehydrocostus lactone (D-056) 32. Fragrance mix II¹ -COUMARIN (C-038) -FARNESOL (F-004) -HYDROXYISOHEXYL 3-CYCLOHEXENE -CARBOXALDEHYDE (L-003) -CITRAL (C-036) 31. Pet Mx-18 Mx-18 0.0 33 14.0 pet Mx-25 14.0 pet Mx-25 2.5 2.5 2.5 CARBOXALDEHYDE (L-003) -CITRAL (C-036) 1.0		-Oakmoss absolute (O-001) ❷	1.0		
31. Sesquiterpene lactone mix¹ -Alantolactone (A-003) -Costunolide (C-039) -Dehydrocostus lactone (D-056) 32. Fragrance mix II¹ -Hexyl cinnamic aldehyde (H-025) -COUMARIN (C-038) -FARNESOL (F-004) -HYDROXYISOHEXYL 3-CYCLOHEXENE -CARBOXALDEHYDE (L-003) -CITRAL (C-036) -CITRAL (C-036) -Mx-18 Mx-18 -Mx-18 -Mx-25	29.	GLUTARAL ² ⊘	0.5	pet	G-003B
-Alantolactone (A-003) 0.033 -Costunolide (C-039) 0.033 -Dehydrocostus lactone (D-056) 0.033 32. Fragrance mix II¹ 14.0 pet Mx-25 -Hexyl cinnamic aldehyde (H-025) 5.0 -COUMARIN (C-038) 2.5 -FARNESOL (F-004) 2.5 -HYDROXYISOHEXYL 3-CYCLOHEXENE 2.5 CARBOXALDEHYDE (L-003) -CITRAL (C-036) 1.0	30.		0.5	pet	B-015B
-Costunolide (C-039) 0.033 -Dehydrocostus lactone (D-056) 0.033 32. Fragrance mix II¹ 14.0 pet Mx-25 -Hexyl cinnamic aldehyde (H-025) 5.0 -COUMARIN (C-038) 2.5 -FARNESOL (F-004) 2.5 -HYDROXYISOHEXYL 3-CYCLOHEXENE 2.5 CARBOXALDEHYDE (L-003) -CITRAL (C-036) 1.0	31.		0.1	pet	Mx-18
-Dehydrocostus lactone (D-056) 0.033 32. Fragrance mix II¹ 14.0 pet Mx-25 -Hexyl cinnamic aldehyde (H-025) 5.0 -COUMARIN (C-038) 2.5 -FARNESOL (F-004) 2.5 -HYDROXYISOHEXYL 3-CYCLOHEXENE 2.5 CARBOXALDEHYDE (L-003) -CITRAL (C-036) 1.0			0.03	3	
32. Fragrance mix II¹			0.03	3	
-Hexyl cinnamic aldehyde (H-025) 5.0 -COUMARIN (C-038) 2.5 -FARNESOL (F-004) 2.5 -HYDROXYISOHEXYL 3-CYCLOHEXENE 2.5 CARBOXALDEHYDE (L-003) -CITRAL (C-036) 1.0					
-COUMARIN (C-038) 2.5 -FARNESOL (F-004) 2.5 -HYDROXYISOHEXYL 3-CYCLOHEXENE 2.5 CARBOXALDEHYDE (L-003) -CITRAL (C-036) 1.0	32.			pet	Mx-25
-FARNESOL (F-004) 2.5 -HYDROXYISOHEXYL 3-CYCLOHEXENE 2.5 CARBOXALDEHYDE (L-003) -CITRAL (C-036) 1.0					
-HYDROXYISOHEXYL 3-CYCLOHEXENE 2.5 CARBOXALDEHYDE (L-003) -CITRAL (C-036) 1.0					
CARBOXALDEHYDE (L-003) -CITRAL (C-036) 1.0					
-CITRAL (C-036) 1.0			2.5		
			1.0		
-CITRONELLOL (C-037)					
-CITRONELLOL (C-037) ② 0.5 33. PROPYLENE GLYCOL ② 30.0 aq P-019B	33			20	D 010B
34. 2-Hydroxyethyl methacrylate 2.0 pet H-010					
35. Propolis 2.0 pet 11-010					
36. Hydroperoxides of Limonene ② 0.3 pet H-032A					
37. IODOPROPYNYL BUTYLCARBAMATE 0.2 pet I-008C				•	

	Compound	Conc. %(w/		Art. No.
38.	Disperse Blue mix 106/124	1.0	pet	Mx-26
	-Disperse Blue 106 (D-040)	0.5		
	-Disperse Blue 124 (D-041)	0.5		
39.	Ethyl acrylate 🗞	0.1	pet	E-004
40.	Hydroperoxides of Linalool ⊗	1.0	pet	H-031A
41.	Toluenesulfonamide formaldehyde resin	10.0	pet	T-010
42.	,	2.0	pet	M-013
43.	Cobalt(II)chloride hexahydrate ¹	1.0	pet	C-017A
44.	Tixocortol-21-pivalate	0.1	pet	T-031A
45.	Budesonide	0.1	pet	B-033A
46.	Compositae mix II 🗞	5.0	pet	Mx-29A
	-Anthemis nobilis extract (C-029) ❷	1.2		
	-Chamomilla recutita extract (C-051) 🤡	1.2		
	-Achillea millefolium extract (A-025) 🗞	1.0		
	-Tanacetum vulgare extract (T-033) 🗞	1.0		
	-Arnica montana extract (A-024) 🗞	0.5		
	-Parthenolide (P-029)	0.1		
47.	DECYL GLUCOSIDE⁴ <a>∅	5.0	pet	D-065
48.	OLEAMIDOPROPYL DIMETHYLAMINE ⊗	0.1	aq	O-005
49.	COCAMIDOPROPYL BETAINE ❷	1.0	aq	C-018
50.	METHYLISOTHIAZOLINONE¹ ❷	0.2	aq	M-035B
	Revi	sed Ja	anuar	y 2018

North American 65 Extended Series NAE-65

1. 2. 3. 4. 5. 6. 7.	Benzocaine¹ 2-Mercaptobenzothiazole (MBT)¹ COLOPHONIUM¹ p-PHENYLENEDIAMINE (PPD)¹ IMIDAZOLIDINYL UREA CINNAMAL & Amerchol L-101 Carba mix	5.0 1.0 20.0 1.0 2.0 1.0 50.0 3.0	pet pet pet	B-004 M-003B C-020 P-006 I-001A C-014 A-004 Mx-06
9.	-1,3-Diphenylguanidine (D-022) -ZINC DIBUTYLDITHIOCARBAMATE (ZBC) (Z-002) -Zinc diethyldithiocarbamate (ZDC) (Z-003) Neomycin sulfate¹	1.0		N-001

	Compound	Conc. %(w/		Art. No.
10.	Thiuram mix ¹ -Dipentamethylenethiuram disulfide (D-019) -Tetraethylthiuram disulfide (TETD) (T-002) -Tetramethylthiuram disulfide (TMTD) (T-005) -Tetramethylthiuram monosulfide (TMTM) (T-006)	0.25 0.25	pet	Mx-01
11.	FORMÁLDEHYDE¹⊗	2.0	aq	F-002B
12.	Ethylenediamine dihydrochloride	1.0	pet	E-005
	Epoxy resin, Bisphenol A ¹	1.0	pet	E-002
14.	QUATERNIUM-15 ¹	2.0	pet	C-007B
15.	4-tert-Butylphenolformaldehyde resin (PTBP)1	1.0	pet	B-024
16.	Mercapto mix	1.0	pet	Mx-05B
	-N-Cyclohexyl-2-benzothiazolesulfenamide (C-023)	0.25		
	-Dibenzothiazyl disulfide (MBTS) (D-003)	0.25		
	-2-Mercaptobenzothiazole (MBT) (M-003)	0.25		
	-2-(4-Morpholinylmercapto)benzothiazol	0.25		
	(MOR) (M-016)			
	1,3-Diphenylguanidine	1.0	pet	D-022
18.	Potassium dichromate	0.25		P-014B
	Peru balsam	25.0	pet	B-001
	Nickel(II)sulfate hexahydrate	2.5	pet	N-002B
21.		1.0	pet	D-044C
22.	DMDM HYDANTOIN	1.0	pet	D-047B
	Bacitracin	20.0	pet	B-032B
24.	,	1.0	pet	Mx-24
	-N,N'-Dibutylthiourea (D-038)	0.5		
	-N,N'-Diethylthiourea (D-039)	0.5		
25.	METHYLISOTHIAZOLINONE +	0.02	aq	C-009B
	METHYLCHLOROISOTHIAZOLINONE¹			
26.	Paraben mix	12.0	pet	Mx-03A
	-BUTYLPARABEN (B-020)	3.0		
	-ETHYLPARABEN (E-010)	3.0		
	-METHYLPARABEN (M-012)	3.0		
	-PROPYLPARABEN (P-020)	3.0		
27.		0.5	pet	D-049E
28.	Fragrance mix I ^{1,2}	8.0	pet	Mx-07
	-AMYL CINNAMAL (A-014)	1.0		
	-CINNAMYL ALCOHOL (C-013) ■ CINNAMYL (C-014) ■ CINNAMYL (C-014)	1.0		
	-CINNAMAL (C-014)	1.0		
	-EUGENOL (E-016) ❷	1.0		

	Compound	Conc. Veh. %(w/w)	Art. No.
	-GERANIOL (G-001) ❷	1.0	
	-HYDROXYCITRONELLAL (H-008)	1.0	
	-ISOEUGENOL (I-002) ❷	1.0	
	-Oakmoss absolute (O-001)	1.0	
29.		0.5 pet	G-003B
30.	,	0.5 pet	B-015B
31.		0.1 pet	Mx-18
	-Alantolactone (A-003)	0.033	
	-Costunolide (C-039)	0.033	
00	-Dehydrocostus lactone (D-056)	0.033	N4 05
32.		14.0 pet	Mx-25
	-Hexyl cinnamic aldehyde (H-025)	5.0 2.5	
	-COUMARIN (C-038)	2.5	
	-FARNESOL (F-004) -HYDROXYISOHEXYL 3-CYCLOHEXENE	2.5	
	CARBOXALDEHYDE (L-003)	2.5	
	-CITRAL (C-036)	1.0	
	-CITRONELLOL (C-037) ❷	0.5	
33	PROPYLENE GLYCOL	30.0 aq	P-019B
	BENZOPHENONE-3	10.0 pet	H-014C
	CHLOROXYLENOL (PCMX)	1.0 pet	C-010B
	Hydroperoxides of Limonene ②	0.3 pet	H-032A
	IODOPROPYNYL BUTYLCARBAMATE	0.2 pet	I-008C
38.		1.0 pet	Mx-26
	-Disperse Blue 106 (D-040)	0.5	
	-Disperse Blue 124 (D-041)	0.5	
39.	Ethyl acrylate ②	0.1 pet	E-004
40.		1.0 pet	H-031A
41.	Toluenesulfonamide formaldehyde resin	10.0 pet	T-010
42.	Methyl methacrylate ②	2.0 pet	M-013
43.	Cobalt(II)chloride hexahydrate ¹	1.0 pet	C-017A
44.	Tixocortol-21-pivalate	0.1 pet	T-031A
45.	Budesonide	0.01 pet	B-033B
46.	Compositae mix II 🗞	5.0 pet	Mx-29A
	-Anthemis nobilis extract (C-029) 🗞	1.2	
	-Chamomilla recutita extract (C-051) 🤡	1.2	
	-Achillea millefolium extract (A-025) 🗞	1.0	
	-Tanacetum vulgare extract (T-033)	1.0	
	-Arnica montana extract (A-024) 🗞	0.5	
	-Parthenolide (P-029)	0.1	

	Compound	Conc. %(w/		Art. No.
47.	Textile dye mix ¹	6.6	pet	Mx-30
	-Diperse Blue 35 (D-027)	1.0	•	
	-Diperse Orange 1 (D-031)	1.0		
	-DISPERSE ORANGE 3 (D-032)	1.0		
	-Disperse Red 1 (D-034)	1.0		
	-DISPERSE RED 17 (D-035)	1.0		
	-Disperse Yellow 3 (D-036)	1.0		
	-Disperse Blue 106 (D-040)	0.3		
	-Disperse Blue 124 (D-041)	0.3		
48.	OLEAMIDOPROPYL DIMETHYLAMINE ⊗	0.1	aq	O-005
49.		1.0	aq	C-018
50.		0.2	aq	M-035B
51.	Lidocaine	15.0	pet	L-002B
52.	, ,	2.5	pet	D-005B
53.	DECYL GLUCOSIDE⁴	5.0	pet	D-065
54.	Clobetasol-17-propionate	1.0	pet	C-028
55.	=	0.1	aq	A-029
56.	2-Hydroxyethyl methacrylate <a>⊗	2.0	pet	H-010
57.	Desoximetasone	1.0	pet	D-057
58.	HYDROXYISOHEXYL 3-CYCLOHEXENE	5.0	pet	L-003
	CARBOXALDEHYDE ¹			
59.		10.0	sof	B-008B
60.	TOCOPHEROL ②	100		T-036
61.	Propolis	10.0	pet	P-022
62.	Fusidic acid sodium salt	2.0	pet	F-003
63.	COCAMIDE DEA	0.5	pet	C-019
64.	Tea tree oil oxidized ⊘	5.0	pet	T-035B
65.	Ylang ylang oil ❷	2.0	pet	Y-001
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North American 80 Comprehensive Series

NAC-80

1.	Benzocaine ¹	5.0	pet	B-004
2.	2-Mercaptobenzothiazole (MBT)	1.0	pet	M-003B
3.	COLOPHONIUM ¹	20.0	pet	C-020
4.	p-PHENYLENEDIAMINE (PPD) ¹	1.0	pet	P-006
5.	IMIDAZOLIDINYL UREA	2.0	pet	I-001A
6.	CINNAMAL ❷	1.0	pet	C-014
7.	Amerchol L-101	50.0	pet	A-004

	Compound	Conc. %(w		Art. No.
8.	Carba mix -1,3-Diphenylguanidine (D-022) -ZINC DIBUTYLDITHIOCARBAMATE (ZBC) (Z-002)	3.0 1.0 1.0	pet	Mx-06
9. 10.	-Zinc diethyldithiocarbamate (ZDC) (Z-003) Neomycin sulfate¹ Thiuram mix¹ -Dipentamethylenethiuram disulfide (D-019) -Tetraethylthiuram disulfide (TETD) (T-002) -Tetramethylthiuram disulfide (TMTD) (T-005) -Tetramethylthiuram monosulfide (TMTM) (T-006)		pet pet	N-001 Mx-01
	Clobetasol-17-propionate Ethylenediamine dihydrochloride Epoxy resin, Bisphenol A¹ QUATERNIUM-15¹ 4-tert-Butylphenolformaldehyde resin (PTBP)¹ Mercapto mix -N-Cyclohexyl-2-benzothiazolesulfenamide	1.0	pet pet pet pet pet pet	C-028 E-005 E-002 C-007B B-024 Mx-05B
	(C-023) -Dibenzothiazyl disulfide (MBTS) (D-003) -2-Mercaptobenzothiazole (MBT) (M-003) -2-(4-Morpholinylmercapto)benzothiazol	0.25 0.25 0.25		
17. 18. 19.	-Dibenzothiazyl disulfide (MBTS) (D-003) -2-Mercaptobenzothiazole (MBT) (M-003) -2-(4-Morpholinylmercapto)benzothiazol (MOR) (M-016) 1,3-Diphenylguanidine Potassium dichromate Peru balsam ^{1,2}	0.25 0.25 1.0 0.25 25.0	pet	D-022 P-014B B-001
18. 19. 20. 21.	-Dibenzothiazyl disulfide (MBTS) (D-003) -2-Mercaptobenzothiazole (MBT) (M-003) -2-(4-Morpholinylmercapto)benzothiazol (MOR) (M-016) 1,3-Diphenylguanidine Potassium dichromate Peru balsam¹.² Nickel(II)sulfate hexahydrate DIAZOLIDINYL UREA TOCOPHEROL Bacitracin	0.25 0.25 1.0 0.25	pet pet pet pet	P-014B
18. 19. 20. 21. 22. 23.	-Dibenzothiazyl disulfide (MBTS) (D-003) -2-Mercaptobenzothiazole (MBT) (M-003) -2-(4-Morpholinylmercapto)benzothiazol (MOR) (M-016) 1,3-Diphenylguanidine Potassium dichromate Peru balsam¹.² Nickel(II)sulfate hexahydrate DIAZOLIDINYL UREA TOCOPHEROL Bacitracin Mixed dialkyl thiourea -N,N´-Dibutylthiourea (D-038) -N,N´-Diethylthiourea (D-039)	0.25 0.25 1.0 0.25 25.0 2.5 1.0 100 20.0 1.0	pet pet pet pet pet pet	P-014B B-001 N-002B D-044C T-036 B-032B

	Compound	Conc. %(w		Art. No.
28.	Fragrance mix I ^{1,2} 🗞	8.0	pet	Mx-07
	-AMYL CINNAMAL (A-014)	1.0		
	-CINNAMYL ALCOHOL (C-013) ❷	1.0		
	-CINNAMAL (C-014) ❷	1.0		
	-EUGENOL (E-016) ❷	1.0		
	-GERANIOL (G-001) Ø	1.0		
	-HYDROXYCITRONELLAL (H-008)	1.0		
	-ISOEUGENOL (I-002) 🗞	1.0		
	-Oakmoss absolute (O-001) ❷	1.0		
29.		0.5	pet	G-003B
	2-BROMO-2-NITROPROPANE-1,3-DIOL	0.5	pet	B-015B
31.	Sesquiterpene lactone mix ¹	0.1	pet	Mx-18
	-Alantolactone (A-003)	0.03		
	-Costunolide (C-039)	0.03		
	-Dehydrocostus lactone (D-056)	0.03	3	
32.	THIMEROSAL	0.1	pet	T-007
33.	•	10.0		P-022
	BENZOPHENONE-3	10.0	pet	H-014C
35.	CHLOROXYLENOL (PCMX)	1.0	pet	C-010B
36.	,	5.0	pet	Mx-16
	-Dimethylol dihydroxy ethylene urea (D-012) €			
	-Melamine formaldehyde (M-001) 🗞	1.0		
37.	2-tert-Butyl-4-methoxyphenol (BHA)	2.0	pet	B-022
38.	` '	0.5	pet	G-005A
39.		0.1	pet	E-004
	GLYCERYL THIOGLYCOLATE 🗞	1.0	pet	G-004
	Toluenesulfonamide formaldehyde resin	10.0	pet	T-010
	Methyl methacrylate 🗞	2.0	pet	M-013
	Cobalt(II)chloride hexahydrate ¹	1.0	pet	C-017A
	Tixocortol-21-pivalate	1.0	pet	T-031A
45.	Budesonide	0.1	pet	B-033A
	COCAMIDE DEA	0.5	pet	C-019
47.		2.0	pet	T-016
48.	•	6.6	pet	Mx-30
	-Diperse Blue 35 (D-027)	1.0		
	-Diperse Orange 1 (D-031)	1.0		
	-DISPERSE ORANGE 3 (D-032)	1.0		
	-Disperse Red 1 (D-034)	1.0		
	-DISPERSE RED 17 (D-035)	1.0		
	-Disperse Yellow 3 (D-036)	1.0		
	-Disperse Blue 106 (D-040)	0.3		

	Compound	Conc. %(w		Art. No.
	-Disperse Blue 124 (D-041)	0.3		
49.	Tea tree oil oxidized	5.0	pet	T-035B
50.	Fragrance mix II¹ ⊘	14.0	pet	Mx-25
	-Hexyl cinnamic aldehyde (H-025)	5.0	•	
	-COUMARIN (C-038)	2.5		
	-FARNESOL (F-004)	2.5		
	-HYDROXYISOHEXÝL 3-CYCLOHEXENE	2.5		
	CARBOXALDEHYDE (L-003)			
	-CITRAL (C-036)	1.0		
	-CITRONELLOL (C-037) ❷	0.5		
51.		1.0	pet	D-036
52.	BENZYL SALICYLATE	10.0		B-010B
53.	DECYL GLUCOSIDE⁴ ❷	5.0	pet	D-065
54.	METHYLISOTHIAZOLINONE¹ ❷	0.2	aq .	M-035B
55.	2-Hydroxyethyl methacrylate @	2.0	pet	H-010
	DMDM HYDANTOIN³ ⊘	1.0	pet	D-047B
57.	Ylang ylang oil ❷	2.0	pet	Y-001
	BENZYL ALCOHOL ❷	10.0	sof	B-008B
59.	ISOPROPYL MYRISTATE	20.0	pet	I-003
60.	Hydroperoxides of Limonene ⊗	0.3	pet	H-032A
61.	Desoximetasone	1.0	pet	D-057
62.	POLYSORBATE 80	5.0	pet	P-013
63.	IODOPROPYNYL BUTYLCARBAMATE	0.2	pet	I-008C
64.	2-n-Octyl-4-isothiazolin-3-one ூ	0.1	pet	O-004
65.	Disperse Blue mix 106/124	1.0	pet	Mx-26
	-Disperse Blue 106 (D-040)	0.5		
	-Disperse Blue 124 (D-041)	0.5		
66.	Compositae mix II 🗞	5.0	pet	Mx-29A
	-Anthemis nobilis extract (C-029)	1.2	-	
	-Chamomilla recutita extract (C-051) 🗞	1.2		
	-Achillea millefolium extract (A-025)	1.0		
	-Tanacetum vulgare extract (T-033)	1.0		
	-Arnica montana extract (A-024)	0.5		
	-Parthenolide (P-029)	0.1		
67.	Lidocaine	15.0	pet	L-002B
68.	Fusidic acid sodium salt	2.0	pet	F-003
69.	Dibucaine hydrochloride	2.5	pet	D-005B
70.	Benzoylperoxide	1.0	pet	B-007
71.		10.0	pet	I-009
72.		5.0	pet	L-003
	CARBOXALDEHYDE1			

	Compound	Conc. %(w		Art. No.
73.	ETHYLHEXYL SALICYLATE	5.0	pet	O-007A
74.	Hydroperoxides of Linalool ⊗	1.0	pet	H-031A
75.	Amidoamine @	0.1	aq	A-029
76.	COCAMIDOPROPYL BETAINE ⊗	1.0	aq	C-018
77.	FORMALDEHYDE¹	2.0	aq	F-002B
78.	METHYLISOTHIAZOLINONE +	0.02	aq	C-009B
	METHYLCHLOROISOTHIAZOLINONE¹ ⊗			
79.	PROPYLENE GLYCOL ❷	30.0	aq	P-019B
80.	OLEAMIDOPROPYL DIMETHYLAMINE ⊗	0.1	aq	O-005
	Revis	sed Ja	anuar	v 2018

Compostion of International Screening Series

Ba	kery Series	B-1	000
4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18.	Octyl gallate Hydroperoxides of Limonene AMMONIUM PERSULFATE Benzoylperoxide PROPYL GALLATE	10.0 pet 2.0 pet 1.0 pet 2.0 pet 5.0 pet 5.0 pet 3.0 pet 0.25 pet 0.3 pet 1.0 pet 1.0 pet 1.0 pet 0.25 pet 1.0 pet 1.0 pet 0.25 pet 1.5 pet 0.5 0.5 0.5 0.5	B-022 A-015 S-003 B-005 P-018 O-002 H-032A A-011 B-007 P-021 D-042 Mx-28

Corticosteroid Series

CS-1000

1.	Budesonide ¹	0.01	pet	B-033B
2.	Betamethasone-17-valerate	1.0	pet	B-031
3.	Triamcinolone acetonide	1.0	pet	T-030
4.	Tixocortol-21-pivalate ¹	0.1	pet	T-031B
5.	Alclomethasone-17,21-dipropionate	1.0	pet	A-023
6.	Clobetasol-17-propionate	1.0	pet	C-028
7.	Dexamethasone-21-phosphate disodium	1.0	pet	D-046

	ompound Conc. Veh. %(w/w)			Art. No.	
	salt				
8.	Hydrocortisone-17-butyrate ⊗	1.	.0	alc	H-021A
9.	Desoximetasone	1.	.0	pet	D-057
10.	Betamethasone 17,21-dipropionate	1.	.0	pet	B-042
11.	Methylprednisolone aceponate	1.	.0	pet	M-036
12.	Corticosteroid mix	2	.1%	6 pet	Mx-23
	-Budesonide (B-033)	0.	.1		
	-Hydrocortisone-17-butyrate (H-021)	1.	.0		
	-Tixocortol-21-pivalate (T-031)	1.	.0		
13.	Hydrocortisone-21-acetate	1.	.0	pet	H-034
	•	Revise	d J	anuai	ry 2018

Cosmetic Series

C-1000

1. 2. 3.	ISOPROPYL MYRISTATE Amerchol L-101 TRIETHANOLAMINE	20.0 50.0 2.0	pet	I-003 A-004 T-016
4.	POLYSORBATE 80	5.0	pet	P-013
5.	SORBITAN OLEATE	5.0	pet	S-004
6.	2-tert-Butyl-4-methoxyphenol (BHA)	2.0	pet	B-022
7.	BHT	2.0	pet	D-006
8.	Octyl gallate	0.25	pet	O-002
9.	TRICLOSAN	2.0	pet	T-014
10.	SORBIC ACID	2.0	pet	S-003
11.	p-CHLORO-m-CRESOL (PCMC)	1.0	pet	C-008
12.	CHLOROXYLENOL (PCMX)	0.5	pet	C-010A
	THIMEROSAL	0.1	pet	T-007
14.	IMIDAZOLIDINYL UREA	2.0	pet	I-001A
15.		2.0	pet	H-003
	CHLORHEXIDINE DIGLUCONATE @	0.5	aq	C-005
17.	Paraben mix ¹		pet	Mx-03C
	-BUTYLPARABEN (B-020)	4.0		
	-ETHYLPARABEN (E-010)	4.0		
	-METHYLPARABEN (M-012)	4.0		
	-PROPYLPARABEN (P-020)	4.0		
18.		0.01	aq	P-008
	CHLOROACETAMIDE	0.2	pet	C-006
20.	Hexahydro-1,3,5-tris-(2-hydroxyethyl)triazine ⊘		aq	H-002
21.	Clioquinol ¹	5.0	pet	C-015
22.	Ethylenediamine dihydrochloride	1.0	pet	E-005

	Compound	Conc. %(w/		Art. No.
23.	HYDROABIETYL ALCOHOL	10.0	pet	A-002
24.	PHENYL SALICYLATE	1.0	pet	P-011
	BENZOPHENONE-3	10.0	pet	H-014C
	SORBITAN SESQUIOLEATE	20.0	pet	S-005
27.	PROPYLENE GLYCOL ❷	5.0	pet	P-019A
	STEARYL ALCOHOL	30.0	pet	S-006
	CETYL ALCOHOL	5.0	pet	C-003
	BENZYL SALICYLATE	10.0	pet	B-010B
	2-BROMO-2-NITROPROPANE-1,3-DIOL	0.25	pet	B-015A
	Sodium-2-pyridinethiol-1-oxide <i>⊗</i>	0.1	aq	S-002
	COCAMIDOPROPYL BETAINE @	1.0	aq	C-018
	BENZYL ALCOHOL ❷		sof	B-008B
35.	METHYLISOTHIAZOLINONE +	0.02	aq	C-009B
	METHYLCHLOROISOTHIAZOLINONE¹ ⊗			
	t-BUTYL HYDROQUINONE	1.0	pet	B-028
	DROMETRIZOLE	1.0	pet	H-016
	PROPYL GALLATE	1.0		P-021
	DODECYL GALLATE	0.25	pet	D-042
	QUATERNIUM-15 ¹	1.0	pet	
	PHENOXYETHANOL < ⊘	1.0	pet	
	DIAZOLIDINYL UREA	2.0	pet	D-044A
	TOCOPHEROL ⊘	100		T-036
	DMDM HYDANTOIN < ⊘	2.0	aq	D-047A
	METHYLDIBROMO GLUTARONITRILE ¹	0.5	pet	D-049E
	Tea tree oil oxidized < ⊘	5.0	pet	T-035B
	IODOPROPYNYL BUTYLCARBAMATE	0.2	pet	I-008C
	3-(Dimethylamino)-1-propylamine <a>♥	1.0	aq	D-053
	LAURYL POLYGLUCOSE @	3.0	pet	L-004
	Peppermint oil @	2.0	pet	
	SHELLAC @		alc	S-015
	TOCOPHERYL ACETATE		pet	T-037B
	Turpentine oil oxidized	0.4		T-024B
	METHYLISOTHIAZOLINONE¹	0.2	aq	M-035B
55.	Musk mix	3.0	pet	Mx-10B
	-MUSK KETONE (M-018)	1.0		
	-Musk moskene (M-019)	1.0		
	-Musk xylene (M-021)	1.0		0.005
	OLEAMIDOPROPYL DIMETHYLAMINE ■ PROVIDENCE OF THE PROPERTY		aq	O-005
	DECYL GLUCOSIDE ⁴	5.0	pet	D-065
	ETHYLHEXYLGLYCERIN	5.0	pet	E-027
59.	SODIUM METABISULFITE	1.0	pet	S-011

Compound	Conc. Veh. Art. No. %(w/w)
60. Gallate mix	1.5 pet Mx-28
-DODECYL GALLATE (D-042)	0.5
-PROPYL GALLATE (P-021)	0.5
-Octyl gallate (O-002)	0.5
	Revised January 2018

Cutaneous Adverse Drug Reaction series CAD-1000

1.	Deleted 2018		
2.	Amoxicillin trihydrate	10.0 pet	A-030
3.	Dicloxacillin sodium salt hydrate	10.0 pet	D-058
4.	Cefotaxim sodium salt	10.0 pet	C-040
5.	Doxycycline monohydrate	10.0 pet	D-059
6.	Minocycline hydrochloride	10.0 pet	M-029
7.	Erythromycin base	10.0 pet	E-024
8.	Spiramycin base	10.0 pet	S-012
9.	Clarithromycin	10.0 pet	C-041
10.	Pristinamycin	10.0 pet	P-032
11.	Cotrimoxazole	10.0 pet	C-042
12.	Norfloxacin	10.0 pet	N-007
13.	Ciprofloxacin hydrochloride	10.0 pet	C-043
14.	Carbamazepine	1.0 pet	C-044
15.	Hydantoin	10.0 pet	H-027
16.	Diltiazem hydrochloride	10.0 pet	D-060
17.	Captopril	5.0 pet	C-045
18.	Acetylsalicylic acid	10.0 pet	A-031
19.	Diclofenac sodium salt	1.0 pet	D-061A
20.	Ketoprofen	1.0 pet	K-002B
21.	Piroxicam	1.0 pet	P-033
22.	ACETAMINOPHEN	10.0 pet	A-032
23.	Acyclovir	10.0 pet	A-033
24.	Hydroxyzine hydrochloride	1.0 pet	
25.	Hydrochlorothiazide	10.0 pet	H-029
26.	Clindamycin phosphate	10.0 pet	C-046
27.	Cefradine	10.0 pet	C-047
28.	Cefalexin monohydrate	10.0 pet	
29.	· ·	10.0 pet	I-010A
	Lamotrigine	10.0 pet	L-009
31.	Cefuroxime sodium	10.0 pet	C-053

	Compound	Conc. Veh. %(w/w)	Art. No.
32.	Cefixime trihydrate	10.0 pet	C-054
33.	Deleted 2018		
34.	Cefpodoxime proxetil	10.0 pet	C-055
35.	Potassium clavulanate	10.0 pet	P-040
		Revised Januar	y 2018

Dental Screening

DS-1000

1. 2.	Methyl methacrylate <a>	2.0	pet pet	M-013 T-018
3.	Urethane dimethacrylate	2.0	pet	U-004
4.	Ethylene glycol dimethacrylate	2.0	pet	E-007
5.	Bisphenol A glycerolate dimethacrylate (BIS-GMA)	2.0	pet	H-013
6.	N,N-dimethyl-4-toluidine <a>⊗	5.0	pet	D-016
7.	BENZOPHENONE-3	10.0	pet	H-014C
8.	1,4-Butanediol dimethacrylate 🗞	2.0	pet	B-017
9.	Bisphenol A dimethacrylate (BIS-MA)	2.0	pet	M-007
10.	Potassium dichromate ¹	0.5	pet	P-014A
11.	Mercury ⊘	0.5	pet	M-005
12.	Cobalt(II)chloride hexahydrate ¹	1.0	pet	C-017A
13.	2-Hydroxyethyl methacrylate	2.0	pet	H-010
14.	Gold(I)sodium thiosulfate dihydrate	2.0	pet	G-005B
15.	Nickel(II)sulfate hexahydrate ¹	5.0	pet	N-002A
16.	EUGENOL ®	2.0	pet	E-016
17.	COLOPHONIUM ¹	20.0	pet	C-020
18.	N-Ethyl-p-toluenesulfonamide	0.1	pet	E-015
19.	FORMALDEHYDE¹ ⊗	2.0	aq	F-002B
20.	4-Tolyldiethanolamine	2.0	pet	T-011
21.	Copper(II)sulfate pentahydrate	2.0	pet	C-022
22.	Methylhydroquinone	1.0	pet	M-025
23.	Palladium(II)chloride	2.0	pet	P-001
24.	Aluminium(III)chloride hexahydrate	2.0	pet	A-022
25.	BORNANEDIONE	1.0	pet	C-026
26.	DIMETHYLAMINOETHYL	0.2	pet	D-045
	METHACRYLATE < <p></p>			
27.	1,6-Hexanediol diacrylate	0.1	pet	H-004
28.	DROMETRIZOLE	1.0	pet	H-016
29.	Tetrahydrofurfuryl methacrylate < ôli>	2.0	pet	T-027
30.	Tin	50.0	pet	T-008

	Compound	Cond %(v		Art. No.
31.	Sodium tetrachloropalladate(II) hydrate	3.0	pet	S-017
32.	CARVONE	5.0	pet	C-035
33.	2,2-bis(4-(2-Methacryl-oxyethoxy)phenyl)-	2.0	pet	M-006B
	propane			
34.	GLUTARAL ² ⊘			G-003A
	Rev	ised ر	Janua	ry 2018

De	ental Materials - Patients	D	MP	-1000
1.	Methyl methacrylate ⊘	2.0	pet	M-013
2.	Triethylene glycol dimethacrylate	2.0	pet	T-018
3.	Ethylene glycol dimethacrylate @	2.0	pet	E-007
4.	Bisphenol A glycerolate dimethacrylate (BIS-GMA)	2.0	pet	H-013
5.	2,2-bis(4-(2-Methacryl-oxyethoxy)phenyl)-propane (BIS-EMA)	2.0	pet	M-006B
6.	2-Hydroxyethyl methacrylate	2.0	pet	H-010
7.	DIMETHYLAMINOETHYL	0.2	pet	D-045
	METHACRYLATE ⊘		-	
8.	Tetrahydrofurfuryl methacrylate <a>⊗	2.0	pet	T-027
9.	1,4-Butanediol dimethacrylate ❷	2.0	pet	B-017
10.	1,6-Hexanediol diacrylate	0.1	pet	H-004
11.	Potassium dichromate ¹	0.5	pet	P-014A
12.	Mercury ⊘	0.5	pet	M-005
13.	Cobalt(II)chloride hexahydrate	0.5	pet	C-017B
14.	Gold(I)sodium thiosulfate dihydrate	2.0	pet	G-005B
15.	Nickel(II)sulfate hexahydrate ¹	5.0	pet	N-002A
16.	EUGENOL ❷	2.0	pet	E-016
17.	COLOPHONIUM ¹	20.0	pet	C-020
18.	N-Ethyl-p-toluenesulfonamide	0.1	pet	E-015
19.	Palladium(II)chloride	2.0	pet	P-001
20.	CARVONE @	5.0	pet	C-035
21.	DROMETRIZOLE	1.0	pet	H-016
22.	Peru balsam ^{1,2}	25.0	pet	B-001
23.	Epoxy resin, Bisphenol A ¹	1.0	pet	E-002
	Sodium tetrachloropalladate(II) hydrate	3.0	pet	S-017

Dental Materials - Staff		DMS-1000)
1.	Methyl methacrylate 🏈	2.0 pet M-013	

Revised March 2013

	Compound	Conc. Veh. %(w/w)		Art. No.	
2.	Triethylene glycol dimethacrylate	2.0	pet	T-018	
3.	Ethyleneglycol dimethacrylate ②	2.0	pet	E-007	
4.	Bisphenol A glycerolate dimethacrylate (BIS-GMA)	2.0	pet	H-013	
5.	2-Hydroxyethyl methacrylate @	2.0	pet	H-010	
6.	Tetrahydrofurfuryl methacrylate <a>⊗	2.0	pet	T-027	
7.	1,4-Butanediol dimethacrylate	2.0	pet	B-017	
8.	Mercury ⊘	0.5	pet	M-005	
9.	EUGENOL @	2.0	pet	E-016	
10.	GLUTARAL ² ⊘	0.2	pet	G-003A	
		New January 2005			

Epoxy Series

E-1000

1.	METHENAMINE	2.0	pet	H-003
2.	4,4'-Diaminodiphenylmethane (MDA)	0.5	pet	D-001
3.	Triethylenetetramine (TETA) ❷	0.5	pet	T-019
4.	2-Phenyl glycidyl ether	0.25	pet	P-023
5.	Diethylenetriamine, (DETA) ❷	1.0	pet	D-010
6.	Isophorone diamine (IPD)	0.1	pet	I-006
7.	Epoxy resin, cycloaliphatic	0.5	pet	E-020
8.	Ethylenediamine dihydrochloride	1.0	pet	E-005
9.	3-(Dimethylamino)-1-propylamine ®	1.0	aq	D-053
10.	Epoxy resin, Bisphenol F	0.25	pet	B-035
11.	1,6-Hexanediol diglycidylether	0.25	pet	H-026
12.	1,4-Butanediol diglycidyl ether ❷	0.25	pet	B-036
13.	m-Xylylenediamine 🗞	0.1	pet	X-001
14.	Trimethylolpropane triglycidyl ether @	0.25	pet	T-038
15.	2,4,6-Tris(dimethylaminomethyl)phenol	0.5	pet	T-048
	Revi	sed J	anuar	v 2016

European Photopatch Baseline Series EP-1000

1.	BENZOPHENONE-3	10.0 pet	H-014C
2.	BENZOPHENONE-4	2.0 pet	H-023C
3.	4-METHYLBENZYLIDENE CAMPHOR	10.0 pet	M-024B
4.	ETHYLHEXYL METHOXYCINNAMATE	10.0 pet	E-019C
5.	OCTOCRYLENE	10.0 pet	O-009
6.	ISOAMYL p-METHOXYCINNAMATE	10.0 pet	I-009

	Compound	Conc. %(w/		Art. No.
7.	PABA	10.0	pet	A-006C
8.	BUTYL METHOXYDIBENZOYLMETHANE	10.0	pet	B-029C
9.	BIS-ETHYLHEXYLOXYPHENOL	10.0	pet	B-037
	METHOXYPHENOL TRIAZINE			
10.	DROMETRIZOLE TRISILOXANE	10.0	pet	D-055
11.	Ketoprofen	1.0	pet	K-002B
12.	2-(4-Diethylamino-2-hydroxy benzoyl)-	10.0	pet	D-062
	benzoic acid hexylester			
13.	ETHYLHEXYL TRIAZONE	10.0	pet	O-010
14.	, ,	10.0	pet	M-037
	butylphenol			
15.	Etofenamate	2.0	pet	E-025
16.	DIETHYLHEXYL BUTAMIDO TRIAZONE	10.0	pet	D-063
17.	Piroxicam	1.0	pet	P-033
18.	Benzydamine hydrochloride	2.0	pet	B-041
	Promethazine hydrochloride	0.1	pet	P-017B
20.	DECYL GLUCOSIDE ⁵ ⊘	5.0	pet	D-065
	Revi	sed Ja	anuar	v 2014

European Photopatch Extended Series EPE-1000

1.	BENZOPHENONE-3	10.0	pet	H-014C
2.	BENZOPHENONE-4	2.0	pet	H-023C
3.	4-METHYLBENZYLIDENE CAMPHOR	10.0	pet	M-024B
4.	ETHYLHEXYL METHOXYCINNAMATE	10.0	pet	E-019C
5.	OCTOCRYLENE	10.0	pet	O-009
6.	ISOAMYL p-METHOXYCINNAMATE	10.0	pet	I-009
7.	PABA	10.0	pet	A-006C
8.	BUTYL METHOXYDIBENZOYLMETHANE	10.0	pet	B-029C
9.	BIS-ETHYLHEXYLOXYPHENOL			
	METHOXYPHENOL TRIAZINE	10.0	pet	B-037
10.	DROMETRIZOLE TRISILOXANE	10.0	pet	D-055
11.	Ketoprofen	1.0	pet	K-002B
12.	2-(4-Diethylamino-2-hydroxy benzoyl)-	10.0	pet	D-062
	benzoic acid hexylester			
13.	ETHYLHEXYL TRIAZONE	10.0	pet	O-010
14.	Methylene bis-benzotriazolyl tetramethyl-			
	butylphenol	10.0	pet	M-037
15.	Etofenamate	2.0	pet	E-025

	Compound	Conc. %(w/		Art. No.
16.	DIETHYLHEXYL BUTAMIDO TRIAZONE	10.0	pet	D-063
17.	Piroxicam	1.0	pet	P-033
18.	Benzydamine hydrochloride	2.0	pet	B-041
19.	Promethazine hydrochloride	0.1	pet	P-017B
20.	TRICLOCARBAN	1.0	pet	T-013
21.	BENZOPHENONE-10	10.0	pet	H-020B
22.	PHENYLBENZIMIDAZOLE SULFONIC ACID	10.0	pet	P-024B
23.	HOMOSALATE	10.0	pet	H-024B
24.	ETHYLHEXYL SALICYLATE		pet	O-007B
25.	Polysilicone-15	10.0	pet	P-035
26.	Disodium phenyl dibenzimidazole tetrasulfonate	10.0	pet	D-064
27.	Dexketoprofen	1.0	pet	D-067
28.	TRICLOSAN	2.0	pet	T-014
29.	Ibuprofen	5.0	pet	I-010B
30.	Diclofenac sodium salt	5.0	pet	D-061B
31.	Fenofibrate	10.0	pet	F-006
32.	Chlorpromazine hydrochloride	0.1	pet	C-011
33.	Olaquindox	1.0	pet	O-008
34.	DECYL GLUCOSIDE⁴ ⊘	5.0	pet	D-065
	Re	vised Ja	anuar	y 2014

Fragrance Series

F-1000

1.	CINNAMAL ^{EC} 🗞	1.0	pet	C-014
2.	CINNAMYL ALCOHOL ^{EC} ⊘	2.0	pet	C-013
3.	AMYL CINNAMALEC	2.0	pet	A-014
4.	EUGENOL ^{EC}	2.0	pet	E-016
5.	ISOEUGENOL ^{EC}	2.0	pet	I-002
6.	GERANIOL ^{EC} ⊘	2.0	pet	G-001
7.	Oakmoss absolute ^{EC,2} ⊘	2.0	pet	O-001
8.	HYDROXYCITRONELLALEC	2.0	pet	H-008
9.	Narcissus poeticus absolute <a>⊗	2.0	pet	N-006
10.	Musk xylene	1.0	pet	M-021
11.	METHYL ANTHRANILATE	5.0	pet	M-028
12.	Musk moskene	1.0	pet	M-019
13.	MUSK KETONE	1.0	pet	M-018
14.	Jasmine synthetic ❷	2.0	pet	J-001
15.	BENZYL SALICYLATEEC	10.0	pet	B-010B

	Compound	Conc. %(w		Art. No.
	BENZYL ALCOHOL ^{EC} ⊘	10.0		B-008B
	VANILLIN	10.0	pet	V-001
	Lavender absolute	2.0	pet	L-001
	Cananga oil 🗞	2.0	pet	C-002
	Rose absolute 🏖	2.0	pet	R-003
	Ylang ylang oil @	2.0	pet	Y-001
22.		2.0	pet	G-002
	Jasmine absolute ②	2.0	pet	J-002
	Sandalwood oil 🏖	2.0	pet	
25.	HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE EC,1	5.0	pet	L-003
26.	CITRALEC	2.0	pet	C-036
	FARNESOLEC	5.0	pet	F-004
	CITRONELLOL ^{EC}	1.0	pet	
29.	Hexyl cinnamic aldehyde ^{EC}	10.0	pet	H-025
	COUMARINEC	5.0	pet	C-038
31.		14.0	•	Mx-25
	-Hexyl cinnamic aldehyde (H-025) ^{EC}	5.0		
	-COUMARIN (C-038)EC	2.5		
	-FARNESOL (F-004) ^{EC}	2.5		
	-HYDROXYISOHEXYL 3-CYCLOHEXENE	2.5		
	CARBOXALDEHYDE (L-003) EC			
	-CITRAL (C-036) ^{EC}	1.0		
	-CITRONELLOL (C-037) ^{EC}	0.5		
32.	Amyl cinnamyl alcohol ^{EC}	5.0	pet	A-036
33.	Anise alcohol ^{EC}	10.0	sof	A-037
	BENZYL BENZOATEEC	10.0	pet	B-038
35.	BENZYL CINNAMATEEC	10.0	pet	B-039
	BUTYLPHENYL METHYLPROPIONALEC	10.0	pet	B-040
	Treemoss absolute ^{EC} ⊘	1.0	•	E-026
	α-Isomethyl ionone ^{EC}	10.0	pet	I-017
	d-Limonene ^{EC}	10.0	•	L-006C
	LINALOOL ^{EC}	10.0	•	L-005B
	Methyl-2-octynoate ^{EC}	0.2	pet	M-034
42.	Majanthole	5.0	pet	M-033
43.	<i>y</i> 1	1.0	pet	H-031A
	Hydroperoxides of Limonene @	0.3	pet	H-032A
45.		6.0	pet	
	-CINNAMYL ALCOHOL(C-013) ^{EC}	1.0		
	-CINNAMAL (C-014) ^{EC}	1.0		
	-EUGENOL (E-016) ^{EC} Ø	1.0		

	Compound			. Veh. /w)	Art. No.
	-GERANIOL (G-001) ^{EC}	1.	0		
	-HYDROXYCITRONELLAL (H-008)EG	1.0	0		
	-ISOEUGENOL (I-002)EC	1.	0		
46.	Hydroperoxides of Linalool	0.	5	pet	H-031B
47.	Hydroperoxides of Limonene ⊗	0	2	pet	H-032B
48.	Styrax 🗞	2.	0	pet	S-008
		Revised	l L	anuar	y 2017

Hairdressing Series

H-1000

4	~ DUENVIENEDIAMINE (DDD)1	4.0		D 000
1. 2.	p-PHENYLENEDIAMINE (PPD) ¹ TOLUENE-2,5-DIAMINE SULFATE	1.0 1.0	pet pet	P-006 D-002
3.	2-NITRO-p-PHENYLENEDIAMINE	1.0	pet	N-004
3. 4.	AMMONIUM THIOGLYCOLATE	2.5	ag	A-012
4 . 5.	AMMONIUM PERSULFATE	2.5	pet	A-012 A-011
5. 6.	FORMALDEHYDE ¹	2.0	aq	F-002B
7.	Nickel(II)sulfate hexahydrate ¹	5.0	pet	N-002B
7. 8.	Cobalt(II)chloride hexahydrate ¹	1.0	pet	C-017A
o. 9.	RESORCINOL	1.0	pet	R-001
3. 10.		1.0	pet	A-008
11.	p-AMINOPHENOL	1.0	pet	A-008 A-009
12.	HYDROGEN PEROXIDE	3.0	ag	H-006
13.		1.0	pet	H-007
14.		25.0		B-001
15.		0.2	pet	C-006
16.		1.0	pet	G-004
	COCAMIDOPROPYL BETAINE	1.0	aq	C-018
18.		0.02		C-009B
	METHYLCHLORO-ISOTHIAZOLINONE¹ ♥		чч	0 0005
19.	2-BROMO-2-NITROPROPANE-1,3-DIOL	0.25	pet	B-015A
20.	Captan	0.5	pet	C-025
21.	p-CHLORO-m-CRESOL (PCMC)	1.0	pet	C-008
22.		0.5	pet	C-010A
23.	IMIDAZOLIDINYL UREA	2.0	pet	I-001A
24.	QUATERNIUM-15 ¹	1.0	pet	C-007A
25.	ZINC PYRITHIONE	1.0	pet	Z-006
26.	DIAZOLIDINYL UREA	2.0	pet	D-044A
27.	LAURYL POLYGLUCOSE ②	3.0	pet	L-004
28.	OLEAMIDOPROPYL DIMETHYLAMINE @	0.1	aq	O-005
29.	DECYL GLUCOSIDE⁴	5.0	pet	D-065

	Compound	Conc %(v		Art. No.
30.	TOLUENE-2,5-DIAMINE	1.0	pet	T-049
31.	4-AMINO-2-HYDROXYTOLUENE	1.0	pet	A-039
32.	CYSTEAMINE HCL	0.5	pet	
33.	2-METHYLRESORCINOL	1.0	pet	M-039
34.	HYDROXYETHYL-p-PHENYLENE-	2.0	pet	H-033
	DIAMINE SULFATE			
35.	p-METHYLAMINOPHENOL	1.0	pet	M-040
36.	CETRIMONIUM BROMIDE	0.5	pet	C-050
37.	SODIUM METABISULFITE	1.0	pet	S-011
		Revised January 2018		

Isocyanate Series

I-1000

1.	Toluene-2,4-diisocyanate (TDI) ❷	2.0	pet	T-009
2.	Diphenylmethane-4,4´-diisocyanate (MDI)€	0.5	pet	D-023B
3.	4,4'-Diaminodiphenylmethane (MDA)	0.5	pet	D-001
4.	ISOPHORONE DIISOCYANATE (IPDI)	1.0	pet	I-007
5.	Isophorone diamine (IPD) < ôli> ôli> ôli> ôli> ôli> ôli> ôli> ôli>	0.1	pet	I-006
6.	Hexamethylene diisocyanate (HDI) ❷	0.1	pet	H-022
7.	Polymeric diphenylmethane diisocyanate	2.0	pet	P-038
	(PMDI) ❷			

Revised March 2013

Leg Ulcer Series

LU-1000

	Compound	Conc. Veh. %(w/w)	Art. No.
16.	p-CHLORO-m-CRESOL (PCMC)	1.0 pet	C-008
17.	Budesonide ¹	0.01 pet	B-033B
18.	TRIETHANOLAMINE	2.0 pet	T-016
	Framycetin sulphate	20.0 pet	F-005
20.	SORBITAN SESQUIOLEATE	20.0 pet	S-005
21.	Tixocortol-21-pivalate ¹	0.1 pet	T-031B
22.	SORBITAN OLEATE	5.0 pet	S-004
23.	PHENYL MERCURIC ACETATE ⊘	0.01 aq	P-008
24.	CHLOROACETAMIDE	0.2 pet	C-006
25.	DIAZOLIDINYL UREA	2.0 pet	D-044A
26.	IMIDAZOLIDINYL UREA	2.0 pet	I-001A
27.	Wood tar mix ❷	12.0 pet	Mx-14
	-Beech tar (B-002) ❷	3.0	
	-Birch tar (B-011) ❷	3.0	
	-Juniperus oxycedrus extract (J-003) ❷	3.0	
	-Pine tar (P-012) ⊘	3.0	
	Б		0007

Revised January 2007

Medicament Series

ME-1000

1.	Chloramphenicol	5.0 pet	C-032
2.	Kanamycin sulfate	10.0 pet	K-001
3.	Quinine sulfate	1.0 pet	Q-001
4.	Sulfanilamide	5.0 pet	S-010
5.	Gentamicin sulfate	20.0 pet	G-006
6.	Nitrofurazone	1.0 pet	N-005
7.	Bacitracin	5.0 pet	B-032A
8.	Framycetin sulphate	20.0 pet	F-005
9.	Caine mix III	10.0 pet	Mx-19
	-Benzocaine (B-004)	5.0	
	-Dibucaine hydrochloride (D-005)	2.5	
	-Tetracaine hydrochloride (T-025)	2.5	
10.	Miconazole 🍪	1.0 alc	M-027
11.	Econazole nitrate @	1.0 alc	E-021
12.	Caine mix IV	10.0 pet	Mx-20
	-Lidocaine (L-002)	5.0	
	-Amylocaine hydrochloride (A-020)	2.5	
	-Prilocaine hydrochloride (P-027)	2.5	
13.	Fusidic acid sodium salt	2.0 pet	F-003
14.	Tioconazole	1.0 pet	T-034

	Compound	Conc. Veh. %(w/w)	Art. No.		
15.	Tobramycin	20.0 pet	T-050		
16.	Vancomycin hydrochloride <a>⊗	10.0 aq	V-004		
17.	Bufexamac	5.0 pet	B-043		
18.	Pramoxine hydrochloride	2.0 pet	P-039		
19.	Phenylbutazone	10.0 pet	P-041		
		Revised January 20			

Metal Series

MET-1000

1.	Zinc	2.5	pet	Z-001
2.	Mercury ⊘	0.5	pet	M-005
3.	Mercury(II)chloride	0.1	pet	M-004
4.	Aluminium(III)chloride hexahydrate	2.0	pet	A-022
5.	Mercury(II)amidochloride	1.0	pet	M-022
6.	Deleted 2017		•	
7.	Palladium(II)chloride	2.0	pet	P-001
8.	Gold(I)sodium thiosulfate dihydrate	2.0	pet	G-005B
9.	Copper(II)sulfate pentahydrate	2.0	pet	C-022
10.	Gold(I)sodium thiosulfate dihydrate	0.5	pet	G-005A
11.	Copper(I)oxide	5.0	pet	C-021
12.	Tin	50.0	pet	T-008
13.	Iridium(III)chloride trihydrate	1.0	pet	I-012
14.	Iridium	1.0	pet	I-014
15.	Indium	1.0	pet	I-015
16.	Titanium(III)nitride	5.0	pet	T-039
17.	TITANIUM DIOXIDE	10.0	pet	T-040
18.	ZINC CHLORIDE	1.0	pet	Z-007B
19.	Titanium(IV)oxalate hydrate	5.0	pet	T-041
20.	CALCIUM TITANATE	10.0	pet	C-049
21.	Titanium	10.0	pet	T-042
22.	Vanadium	5.0	pet	V-002
23.	Molybdenum	5.0	pet	M-030
24.	Vanadium(III)chloride	1.0	pet	V-003
	MANGANESE CHLORIDE	2.0	pet	M-031
26.	Tin(II)oxalate	1.0	pet	S-014
27.	Zirconium(IV)chloride	1.0	pet	Z-008
	Tungsten	5.0	pet	T-043
	FERRIC CHLORIDE	2.0	pet	I-016
	PHENYL MERCURIC ACETATE 🗞	0.01	aq	P-008
	Potassium dicyanoaurate(I) 🗞	0.1	aq	P-015
32.	SILVER NITRATE 🗞	1.0	aq	S-007

	Compound	Conc. %(w		Art. No.
33.	Cadmium chloride 🏖	1.0	aq	C-001
34.	Ammonium hexachloroiridate(IV) ❷	0.1	aq	A-034
35.	Indium(III)chloride <a>⊗	10.0	aq	I-011
36.	Lead(II)acetate trihydrate 🗞	0.5	aq	L-007
37.	Indium(III)sulfate < ⊘	10.0	aq	I-013
38.	Ammonium molybdate (VI) tetrahydrate @	1.0	aq	A-035
39.	STANNOUS CHLORIDE	1.0	pet	S-013
40.	Lead(II)chloride ⊘	0.2	aq	L-008
	Ammonium hexachloroplatinate(IV) < ⊘	0.1	aq	A-010
42.	Ammonium tetrachloroplatinate(II) <	0.25	aq	A-013
43.	Sodium tetrachloropalladate(II) hydrate	3.0	pet	S-017
44.	Gallium(III)oxide	1.0	pet	G-007
45.	Ruthenium	0.1	pet	R-012
46.	Sodium tungstate dihydrate 🗞	2.0	aq	S-019
47.	Vanadium(V)oxide	10.0	pet	V-005
48.	ALUMINUM HYDROXIDE	10.0	pet	A-038
49.	Molybdenum(V)chloride	0.5	pet	M-038
50.	Niobium(V)chloride	0.2	pet	N-008
51.	Tantalum	1.0	pet	T-047
52.	ZIRCONIUM DIOXIDE	0.1	pet	Z-009
53.	Rhodium(III)chloride hydrate	2.0	pet	R-013
54.	Beryllium(II)sulfate tetrahydrate	1.0	pet	B-044
	Revis	sed Ja	anuar	v 2017

(Meth) Acrylate Series Adhesives, Dental & Other

MA-1000

	raniesi es, 2 entar es e trici	11111 1000		
1.	Methyl methacrylate ⊗	2.0	pet	M-013
2.	BUTYL METHACRYLATE @	2.0	pet	B-021
3.	2-Hydroxyethyl methacrylate <a>⊗	2.0	pet	H-010
4.	Hydroxypropyl methacrylate ❷	2.0	pet	H-018
5.	Ethylene glycol dimethacrylate ூ	2.0	pet	E-007
6.	Triethylene glycol dimethacrylate	2.0	pet	T-018
7.	1,4-Butanediol dimethacrylate	2.0	pet	B-017
8.	Urethane dimethacrylate ②	2.0	pet	U-004
9.	Bisphenol A dimethacrylate (BIS-MA)	2.0	pet	M-007
10.	Bisphenol A glycerolate dimethacrylate	2.0	pet	H-013
	(BIS-GMA)			
11.	1,6-Hexanediol diacrylate	0.1	pet	H-004
12.	Tetrahydrofurfuryl methacrylate ❷	2.0	pet	T-027

	Compound	Conc %(v	. Veh. v/w)	Art. No.
13. 14.		2.0 0.2	pet pet	T-029 D-045
15.	METHACRYLATE <a>⊗ ETHYL CYANOACRYLATE <a>⊗		pet ed Ma	E-023 ay 1999
	leth) Acrylate Series	_		
	Nails-Artificial	1	MN.	<u>-1000</u>
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	Ethyl acrylate ② 2-Hydroxyethyl acrylate ② Triethylene glycol diacrylate ②	0.1 2.0 2.0 2.0 2.0 2.0 0.1 0.1 2.0 0.1 0.1 evised	pet pet pet pet pet pet pet pet pet pet	B-018 E-012 B-021 H-010 H-018 E-007 T-018 H-004 T-021 T-027 E-004 H-009 T-017 st 1992
(N	leth) Acrylate Series			
	Printing	ľ	MP-	1000
1. 2. 3. 4. 5.	Ethyl acrylate ② 2-Ethylhexyl acrylate ② 2-Hydroxyethyl acrylate ② Hydroxypropyl acrylate ② Methyl methacrylate ② ETHYL METHACRYLATE ②	0.1 0.1 0.1 0.1 2.0 2.0	pet pet pet pet pet pet	E-004 E-009 H-009 H-017 M-013 E-012
9. 10.	BUTYL METHACRYLATE BUTYL METHACRYLATE 2-Hydroxyethyl methacrylate Hydroxypropyl methacrylate Ethylene glycol dimethacrylate Triethylene glycol dimethacrylate	2.0 2.0 2.0 2.0 2.0 2.0	pet pet pet pet pet pet	B-021 H-010 H-018 E-007 T-018
12	2.2 bis(1/2 Mothacryl oxyothoxy)phonyl)	2.0	not	MOOSE

12. 2,2-bis(4-(2-Methacryl-oxyethoxy)phenyl)- 2.0 pet propane (BIS-EMA)

M-006B

	Compound		Conc. Veh. %(w/w)	
13.	1,4-Butanediol diacrylate	0.1	pet	B-016
14.	1,6-Hexanediol diacrylate	0.1	pet	H-004
15.	Di(ethylene glycol) diacrylate	0.1	pet	D-009
16.	Tri(propylene glycol) diacrylate @	0.1	pet	T-023
17.	Trimethylolpropane triacrylate ⊘	0.1	pet	T-021
18.	Pentaerythritol triacrylate ❷	0.1	pet	P-002
19.	Oligotriacrylate (OTA 480)	0.1	pet	O-003
20.	Epoxy acrylate	0.5	pet	E-001
21.	Urethane diacrylate, aliphatic	0.1	pet	U-002
22.	Urethane diacrylate, aromatic	0.05	pet	U-003
23.	Triethylene glycol diacrylate 🗞	0.1	pet	T-017
24.	N,N-Methylene-bisacrylamide	1.0	pet	M-023
		Revised March 2010		

Oil & Cooling Fluid Series

O-1000

1.	ABIETIC ACID	10.0	pet	A-001
2.	p-CHLORO-m-CRESOL (PCMC)	1.0	pet	C-008
3.	CHLOROXYLENOL (PCMX)	0.5	pet	C-010A
4.	DICHLOROPHENE `	1.0	pet	D-008
5.	o-PHENYLPHENOL	1.0	pet	P-010
6.	PROPYLENE GLYCOL ❷	5.0	pet	P-019A
7.	TRIETHANOLAMINE	2.0	pet	T-016
8.	4-tert-Butylbenzoic acid	1.0	pet	B-019
9.	BENZISOTHIAZOLINONE	0.05	pet	B-003
10.	Hexahydro-1,3,5-tris-(2-hydroxyethyl)triazine ❷	1.0	aq	H-002
11.	Bioban P 1487 ❷	0.5	pet	E-014
12.	CHLOROACETAMIDE	0.2	pet	C-006
13.	N-Methylolchloroacetamide	0.1	pet	M-014
14.	BENZOTRIAZOLE	1.0	pet	B-006
15.	Ethylenediamine dihydrochloride	1.0	pet	E-005
16.	2-Mercaptobenzothiazole (MBT) ¹	2.0	pet	M-003A
17.	Zinc ethylenebis-(dithiocarbamate) (Zineb)	1.0	pet	Z-005
18.	TRICLOSAN	2.0	pet	T-014
19.	7-ETHYLBICYCLOOXAZOLIDINE < ⊘	1.0	pet	A-017
20.	Bioban CS 1135 < ™	1.0	pet	D-015
21.	TRIS(HYDROXYMETHYL)NITROMETHANE	1.0	pet	H-015
22.	THIMEROSAL	0.1	pet	T-007
23.	Hydrazine sulfate	1.0	pet	H-005
24.	TRICLOCARBAN	1.0	pet	T-013

	Compound	Conc. %(w		Art. No.	
25.	FORMALDEHYDE¹ ⊗	2.0	aq	F-002B	
26.	Amerchol L-101	50.0	pet	A-004	
27.	Hydroperoxides of Limonene ⊗	0.3	pet	H-032A	
	Sodium-2-pyridinethiol-1-oxide ❷	0.1	aq	S-002	
29.	2-BROMO-2-NITROPROPANE-1,3-DIOL	0.25	pet	B-015A	
30.	COCAMIDE DEA	0.5	pet	C-019	
31.	METHYLISOTHIAZOLINONE +	0.02	aq	C-009B	
	METHYLCHLORO-ISOTHIAZOLINONE¹ €	7			
32.	PHENOXYETHANOL ❷	1.0	pet	P-025	
33.	2-n-Octyl-4-isothiazolin-3-one ⊘	0.1	pet	O-004	
34.	METHYLDIBROMO GLUTARONITRILE ¹	0.5	pet	D-049E	
35.	IODOPROPYNYL BUTYLCARBAMATE	0.2	pet	I-008C	
	Revised January 2014				

Photographic Chemicals Series P-1000

1.	N,N-DIETHYLTOLUENE-2,5-DIAMINE HCL	1.0	pet	D-011
2.	N-Ethyl-N-(2-methane-sulfonamidoethyl)-methyl-1,4-PPD-sesquisulfate, hydrate (C		pet	E-013
3.	N-Ethyl-N-(2-hydroxyethyl)-2-methyl-1,4- phenylenediamine sulfate salt	1.0	pet	E-011
4.	p-METHYLAMINOPHENOL SULFATE	1.0	pet	M-009
5.	HYDROQUINONE	1.0	pet	H-007
6.	1-Phenyl-3-pyrazolidinone	1.0	pet	P-004
7.	HYDROXYLAMINE HCL ❷	0.1	aq	H-011
8.	AMMONIUM PERSULFATE	2.5	pet	A-011
9.	Ethylenediamine dihydrochloride	1.0	pet	E-005
10.	BENZOTRIAZOLE	1.0	pet	B-006
11.	GLUTARAL ² ⊘	0.2	pet	G-003A
12.	BENZYL ALCOHOL ❷	10.0	sof	B-008B
13.	HYDROXYLAMINE SULFATE < <p> ⊗</p>	0.1	aq	H-012
14.	Potassium dichromate ¹	0.5	pet	P-014A
15.	N,N-DIETHYL-P-PHENYLENEDIAMINE	1.0	pet	A-007
	SULFATE (TSS)			
16.	Tricresyl phosphate		pet	T-015
	Re	vised F	ebrua	ary 2009

<u>P1</u>	ant Series	PL-	1000
1.	Anthemis nobilis extract ❖	1.0 pet	C-029
2.	Diallyl disulfide 🗞	1.0 pet	D-048
3.	Arnica montana extract 🏖	0.5 pet	A-024
4.	Taraxacum officinale extract ⊗	2.5 pet	T-032
5.	Achillea millefolium extract	1.0 pet	A-025
6.	Propolis	10.0 pet	P-022
7.	Chrysanthemum Cinerariaefolium extract 🗞	1.0 pet	C-031
8.	Sesquiterpene lactone mix ¹	0.1 pet	Mx-18
	-Alantolactone (A-003)	0.033	
	-Costunolide (C-039)	0.033	
	-Dehydrocostus lactone (D-056)	0.033	
9.	α-Methylene-γ-butyrolactone 🗞	0.01 pet	M-026
	Tanacetum vulgare extract 🗞	1.0 pet	
11.	Alantolactone	0.033pet	
12.	Lichen acid mix	0.3 pet	Mx-15
	-Atranorin (A-016)	0.1	
	-Evernic acid (E-017)	0.1	
	-(+)-Usnic acid (U-005)	0.1	
	Parthenolide	0.1 pet	P-029
	Chamomilla recutita extract	1.0 pet	
	(+)-Usnic acid	0.1 pet	
16.	Atranorin	0.1 pet	A-016

Plastics & Glues Series PG-1000

0.1

pet

Revised January 2014

E-017

17. Evernic acid

1.	HYDROQUINONE	1.0	pet	H-007
2.	Dibutyl phthalate	5.0	pet	D-007
3.	PHENYL SALICYLATE	1.0	pet	P-011
4.	Dioctyl phtalate (DEHP, DOP)	2.0	pet	D-018
5.	BHT	2.0	pet	D-006
6.	DROMETRIZOLE	1.0	pet	H-016
7.	Benzoylperoxide	1.0	pet	B-007
8.	4-tert-Butylcatechol (PTBC)	0.25	pet	B-030B
9.	Azodiisobutyrodinitrile	1.0	pet	A-018
10.	Bisphenol A	1.0	pet	B-013
11.	Tricresyl phosphate	5.0	pet	T-015

	Compound	Conc. %(w		Art. No.
12.	Phenol formaldehyde resin (PFR2) 🗞	1.0	pet	P-005
13.	p-tert-Butylphenol formaldehyde resin ¹	1.0	pet	B-024
14.	Triphenyl phosphate	5.0	pet	T-022
15.	Toluenesulfonamide formaldehyde resin	10.0	pet	T-010
16.	Resorcinol monobenzoate	1.0	pet	R-002
17.	2-Phenylindole	2.0	pet	P-007
18.	2-tert-Butyl-4-methoxyphenol (BHA)	2.0	pet	B-022
19.	HYDROABIETYL ALCOHOL	10.0	pet	A-002
20.	4-tert-Butylphenol	1.0	pet	B-023
21.	2-Monomethylol phenol	1.0	pet	M-015
22.	N,N'-Diphenylthiourea (DPTU)	1.0	pet	D-025
23.	2-n-Octyl-4-isothiazolin-3-one	0.1	pet	O-004
24.	Cyclohexanone resin	1.0	pet	C-027
25.	Triglycidyl isocyanurate (TGIC)	0.5	pet	T-028
	Revi	sed Ja	anuar	v 2001

Rubber Additives Series

R-1000

1.	Tetramethylthiuram disulfide (TMTD)	1.0	pet	T-005
2.	Tetramethylthiuram monosulfide (TMTM)	1.0	pet	T-006
3.	Tetraethylthiuram disulfide (TETD)	1.0	pet	T-002
4.	Dipentamethylenethiuram disulfide	1.0	pet	D-019
5.	N-Cyclohexyl-N-phenyl-4-phenylenediamine	1.0	pet	C-024
6.	N,N'-Diphenyl-p-phenylenediamine (DPPD)	1.0	pet	D-024
7.	$\label{eq:N-loop-poly-N-phenyl-4-phenylenediamine} $$ (IPPD)^1 $$$	0.1	pet	I-004
8.	2-Mercaptobenzothiazole (MBT) ¹	2.0	pet	M-003A
9.	N-Cyclohexyl-2-benzothiazolesulfenamide	1.0	pet	C-023
10.	Dibenzothiazyl disulfide (MBTS)	1.0	pet	D-003
11.	2-(4-Morpholinylmercapto)benzothiazol (MOR)	1.0	pet	M-016
12.	1,3-Diphenylguanidine	1.0	pet	D-022
13.	Zinc diethyldithiocarbamate (ZDC)	1.0	pet	Z-003
14.	ZINC DIBUTYLDITHIOCARBAMATE (ZBC)	1.0	pet	Z-002
15.	N,N-Di-2-naphtyl-4-phenylenediamine (DBNPD)	1.0	pet	D-017
16.	N-Phenyl-2-naphtylamine (PBN)	1.0	pet	P-009
17.	METHENAMINE	2.0	pet	H-003
18.	4,4'-Diaminodiphenylmethane (MDA)	0.5	pet	D-001
19.	N,N´-Diphenylthiourea (DPTU)	1.0	pet	D-025

	Compound	Conc %(v	. Veh. //w)	Art. No.
20.	Zinc dimethyldithiocarbamate (Ziram)	1.0	pet	Z-004
21.	2,2,4-Trimethyl-1,2-dihydroquinoline	1.0	pet	T-020
22.	N,N'-Diethylthiourea	1.0	pet	D-039
23.	N,N´-Dibutylthiourea	1.0	pet	D-038
	Dodecyl mercaptan ⊗	0.1	pet	D-043
25.	N-(Cyclohexylthio) phthalimide	1.0	pet	C-034
26.	Thiourea	0.1	pet	T-026
		Revised J	anuar	y 2011

Shoe Series

SH-1000

1.	N Japanenyi N phonyi 4 phonyionodiamino	0.1	pet	I-004
١.	N-Isopropyl-N-phenyl-4-phenylenediamine (IPPD) ¹	0.1	per	1-004
2.	GLUTARAL ²	0.2	pet	G-003A
3.	DISPERSE ORANGE 3	1.0	pet	D-032
4.	Acid yellow 36	1.0	pet	A-019
5.	Hydroquinone monobenzylether	1.0	pet	H-019
6.	Thiuram mix ¹	1.0	pet	Mx-01
٠.	-Dipentamethylenethiuram disulfide (D-019)	0.25	pot	1111/10
	-Tetraethylthiuram disulfide (TETD) (T-002)	0.25		
	-Tetramethylthiuram disulfide (TMTD) (T-005)			
	-Tetramethylthiuram monosulfide (TMTM)	0.25		
	(T-006)	0.20		
7.	,	0.5	pet	P-014A
8.	4-tert-Butylphenolformaldehyde resin (PTBP)1	1.0	pet	B-024
9.		1.0	pet	P-006
10	· · · · · · · · · · · · · · · · · · ·	5.0	pet	N-002A
11		20.0	pet	C-020
12		2.0	aq	F-002B
13		1.0	pet	D-025
14		2.0	pet	M-003A
	5. N,N'-Diethylthiourea	1.0	pet	D-039
16	, · 1) J	1.0	pet	D-022
17		1.0	pet	D-038
	B. Epoxy resin, Bisphenol A ¹	1.0 0.1	pet	E-002 D-043
19 20	, , ,	0.02	pet	C-009B
20	METHYLCHLORO-ISOTHIAZOLINONE¹ €		ay	C-009D
2	. 4-Aminoazobenzene	0.25	net	A-005
	2. 2-n-Octyl-4-isothiazolin-3-one	0.20	pet	O-004
	3. 4,4`-Dithiodimorpholine	1.0	pet	D-054
	· · · · · · · · · · · · · · · · · · ·			y 2014
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Sunscreen Series SU-1000

BUTYL METHOXYDIBENZOYL-	10.0 pet	B-029C
	100	A 0000
	•	A-006C
	•	H-024A
		M-024B
		E-018D
		H-014C
	•	E-019C
BENZOPHENONE-10		
PHENYLBENZIMIDAZOLE SULFONIC ACID	10.0 pet	P-024B
BENZOPHENONE-4	2.0 pet	H-023C
DROMETRIZOLE TRISILOXANE		
		O-009
	•	O-007A
		O-010
		B-037
METHOXYPHENOL TRIAZINE	10.0 pot	В оо.
Methylene bis-benzotriazolyl	10.0 pet	M-037
tetramethylbutylphenol	•	
	10.0 pet	D-062
	•	
	10.0 pet	D-063
Disodium phenyl dibenzimidazole	•	
tetrasulfonate	•	
DECYL GLUCOSIDE⁴ ❷	5.0 pet	D-065
	METHANE PABA HOMOSALATE 4-METHYLBENZYLIDENE CAMPHOR ETHYLHEXYL DIMETHYL PABA BENZOPHENONE-3 ETHYLHEXYL METHOXYCINNAMATE BENZOPHENONE-10 PHENYLBENZIMIDAZOLE SULFONIC ACID BENZOPHENONE-4 DROMETRIZOLE TRISILOXANE OCTOCRYLENE ETHYLHEXYL SALICYLATE ETHYLHEXYL TRIAZONE ISOAMYL p-METHOXYCINNAMATE BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENOL TRIAZINE Methylene bis-benzotriazolyl tetramethylbutylphenol 2-(4-Diethylamino-2-hydroxybenzoyl)- benzoic acid hexylester DIETHYLHEXYL BUTAMIDO TRIAZONE Disodium phenyl dibenzimidazole tetrasulfonate DECYL GLUCOSIDE⁴ ■	METHANE PABA 10.0 pet HOMOSALATE 5.0 pet 4-METHYLBENZYLIDENE CAMPHOR ETHYLHEXYL DIMETHYL PABA 10.0 pet BENZOPHENONE-3 ETHYLHEXYL METHOXYCINNAMATE BENZOPHENONE-10 PHENYLBENZIMIDAZOLE SULFONIC ACID BENZOPHENONE-4 DROMETRIZOLE TRISILOXANE 0CTOCRYLENE THYLHEXYL SALICYLATE ETHYLHEXYL TRIAZONE ISOAMYL p-METHOXYCINNAMATE BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENOL TRIAZINE Methylene bis-benzotriazolyl tetramethylbutylphenol 2-(4-Diethylamino-2-hydroxybenzoyl)- benzoic acid hexylester DIETHYLHEXYL BUTAMIDO TRIAZONE Disodium phenyl dibenzimidazole tetrasulfonate

Textile Colours & Finish

TF-1000

	Disperse Yellow 3	1.0	pet	D-036
2.	DISPERSE ORANGE 3	1.0	pet	D-032
3.	Disperse Red 1	1.0	pet	D-034
4.	DISPERSE RED 17	1.0	pet	D-035
5.	Disperse Blue 153	1.0	pet	D-029
6.	DISPERSE BLUE 3	1.0	pet	D-026
7.	Disperse Blue 35	1.0	pet	D-027

	Compound	Conc. %(w		Art. No.
8.	Dimethylol dihydroxy ethylene urea 🤣	4.5	aq	D-012
9.	Dimethyl dihydroxy ethylene urea ❷	4.5	aq	D-052
10.	Dimethylol dihydroxy ethylene urea, modified ❷	5.0	aq	D-050
11.	Disperse Blue 106	1.0	pet	D-040
12.	Ethyleneurea, melamine formaldehyde mix² -Dimethylol dihydroxy ethylene urea (D-012)		pet	Mx-16
	-Melamine formaldehyde (M-001)	1.0		
13.		10.0	pet	U-001
14.		7.0	pet	M-001
15.		1.0	pet	D-028
16.	Disperse Orange 1	1.0	pet	D-031
	Acid Yellow 61	5.0	pet	A-026
18.	Disperse Brown 1	1.0	pet	D-030
	Disperse Yellow 9	1.0	pet	D-037
	Disperse Blue 124	1.0	pet	D-041
21.		1.0	pet	B-026
22.	Reactive Black 5	1.0	pet	R-004B
23.	Reactive Blue 21	1.0	pet	R-005B
24.	Deleted 2016			
25.	Reactive Orange 107	1.0	pet	R-007B
26.	Reactive Red 123	1.0	pet	R-008B
27.	Reactive Red 238	1.0	pet	R-009B
28.	Reactive Red 228	1.0	pet	R-010B
29.	Reactive Violet 5	1.0	pet	R-011B
30.	Acid Red 118	5.0	pet	A-027
	Direct Orange 34	5.0	pet	D-051
	Acid Red 359	5.0	pet	A-028
33.	Disperse Blue mix 106/124	1.0	pet	Mx-26
	-Disperse Blue 106 (D-040)	0.5		
	-Disperse Blue 124 (D-041)	0.5		
34.		6.6	pet	Mx-30
	-Diperse Blue 35 (D-027)	1.0		
	-Diperse Orange 1 (D-031)	1.0		
	-DISPERSE ORANGE 3 (D-032)	1.0		
	-Disperse Red 1 (D-034)	1.0		
	-DISPERSE RED 17 (D-035)	1.0		
	-Disperse Yellow 3 (D-036)	1.0		
	-Disperse Blue 106 (D-040)	0.3		
	-Disperse Blue 124 (D-041)	0.3	1.	
	ŀ	kevised	Janu	ıary 2015

Various Haptens

V-1000

1. 2.	Prilocaine hydrochloride Ethylenediaminetetraacetic acid disodium salt dihydrate (Na ₂ EDTA)	5.0 1.0	pet pet	P-027A E-006
3.	CHLORHEXIDINÉ DIACETATE ❷	0.5	aq	C-004
4. 5.	Coal tar <a> PETROLATUM 	5.0 100	pet	C-016 P-003
6.	Chlorquinaldol	5.0	pet	C-012
7.	METHYLPARABEN	3.0	pet	M-012
8.	ETHYLPARABEN	3.0	pet	E-010
9.	PROPYLPARABEN	3.0	pet	P-020
10.	BUTYLPARABEN	3.0	pet	B-020
11.	Pine tar ⊘	3.0	pet	P-012
12.	Beech tar ⊘	3.0	pet	B-002
13.	Juniperus oxycedrus extract ⊗	3.0	pet	J-003
14.	Birch tar <a>⊗	3.0	pet	B-011
15.	Procaine hydrochloride	1.0	pet	P-016
16.	Dibucaine hydrochloride	5.0	pet	D-005A
17.	Naphthyl mix	1.0	pet	Mx-11
	-N,N-Di-2-naphtyl-4-phenylenediamine (DBNPD) (D-017)	0.5		
	-N-Phenyl-2-naphtylamine (PBN) (P-009)	0.5		
18.	Caine mix I	3.5	pet	Mx-12
	-Dibucaine hydrochloride (D-005)	2.5		
	-Procaine hydrochloride (P-016)	1.0		
19.	Caine mix II	10.0	pet	Mx-13
	-Lidocaine (L-002)	5.0		
	-Dibucaine hydrochloride (D-005)	2.5		
	-Tetracaine hydrochloride (T-025)	2.5		
20.	1	0.5	pet	P-028
21.	•	1.0	pet	E-008
	Tetracaine hydrochloride	5.0	pet	T-025A
	Tolu balsam absolute ♥		alc	B-025
24.	,	5.0	pet	A-020
25.	Lidocaine	5.0	pet	L-002A

	Compound	Conc. %(w		Art. No.
26.	Black rubber mix -N-Cyclohexyl-N-phenyl-4-phenylenediamine	0.6 0.25	pet	Mx-04
	(C-024)			
	-N,N'-Diphenyl-p-phenylenediamine (D-024)	0.25		
	-N-Isopropyl-N-phenyl-4-phenylenediamine (IPPD) (I-004)	0.1		
27.	Quinoline mix	6.0	pet	Mx-02
	-Chlorquinaldol (C-012)	3.0		
	-Clioquinol (C-015)	3.0		
28.	Dimethyl fumarate ⊘	0.1	pet	D-066A
29.	Dimethyl fumarate ⊘	0.01	pet	D-066B
30.	Softisan 649	100		S-016
31.	METHYLISOTHIAZOLINONE ❷	0.02	aq	M-035A
32.	6-METHYL COUMARIN	1.0	pet	M-010A
33.	3,3',4',5-Tetrachlorosalicylanilide (TCS)	0.1	pet	T-001
34.	Diphenhydramine hydrochloride	1.0	pet	D-021
35.	Methylene bis-benzotriazolyl	10.0	pet	M-032
	tetramethylbutylphenol⁵ ⊗			
36.	SODIUM LAURYL SULFATE 🗞	0.25	aq	S-018
37.	Dermatophagoides mix (vol=2,5 ml) ⁶	30	pet	Mx-21C
	(Pteronyssinus/Pharinae 50/50)			
38.	METHYLISOTHIAZOLINONE+	0.02	pet	C-009D
	METHYLCHLOROISOTHIAZOLINONE ³ ⊘			
39.		0.2		M-035D
	Revis	sed Ja	anuary	y 2018

List of Haptens



Volatile hapten and not recommended to preload.

- ¹ Also present in European Baseline Series
- ² Emulsifier: SORBITAN SESQUIOLEATE 5%
- 3 Emulsifier: SORBITAN SESQUIOLEATE 1%
- ⁴ Emulsifier: SORBITAN SESQUIOLEATE 2%
- ⁵ Contains DECYL GLUCOSIDE

Art. No. Serial no.

- ⁶ Divergent price, ask for quotation.
- ⁷ Present in national series. Visit www.chemotechnique.se for further information.

Name

Conc %(w/w)

EC Directive 2003/15/EC relating to cosmetic products

A11. 110.	ochurno.	& Vehicle
A-001	O-1	10.0 pet ABIETIC ACID
A-002	C-23, PG-19	10.0 pet HYDROABIETYL ALCOHOL
A-003B	PL-11	0.033 pet Alantolactone
A-004	ICB-7, C-2,	50.0 pet Amerchol L-101
	O-26, LU-1	
A-005	SH-21	0.25 pet 4-Aminoazobenzene
A-006A	7	5.0 pet PABA
A-006B	7	5.0 alc PABA ❷
A-006C	EP-7, EPE-7, SU-2	10.0 pet PABA
A-007	P-15	1.0 pet N,N-DIETHYL-p-PHENYLENEDI AMINE SULFATE (TSS)
A-008	H-10	1.0 pet m-AMINOPHENOL
A-009	H-11	1.0 pet p-AMINOPHENOL
A-010	MET-41	0.1 aq Ammonium hexachloroplatinate(IV) 🧞
A-011	B-16, H-5, P-8	2.5 pet AMMONIUM PERSULFATE
A-012	H-4	2.5 aq AMMONIUM THIOGLYCOLATE 🗞
A-013	MET-42	0.25 aq Ammonium tetrachloroplatinate(II) 🤡
A-014	F-3	2.0 pet AMYL CINNAMAL
A-015	B-10	5.0 pet TRANS-ANETHOLE 🗞
A-016	PL-16	0.1 pet Atranorin
A-017	O-19	1.0 pet 7-ETHYLBICYCLOOXAZOLIDINE < <p></p>
A-018	PG-9	1.0 pet Azodiisobutyrodinitrile
A-019	SH-4	1.0 pet Acid Yellow 36
A-020	V-24	5.0 pet Amylocaine hydrochloride

Art. No.		Conc %(\ & Vehicle	
A-021	Deleted 2017		(Aluminium)
A-022	DS-24, MET-4	2.0 pet	Aluminium(III)chloride hexahydrate
A-023	CS-5	1.0 pet	Alclometasone-17,21-dipropionate
A-024	PL-3	0.5 pet	Arnica montana extract 🗞
A-025	PL-5	1.0 pet	Achillea millefolium extract 🗞
A-026	TF-17	5.0 pet	Acid Yellow 61
A-027	TF-30	5.0 pet	Acid Red 118
A-028	TF-32	5.0 pet	Acid Red 359
A-029	ICB-75	0.1 aq	Amidoamine 🗞
A-030	CAD-2	10.0 pet	Amoxicillin trihydrate
A-031	CAD-18		Acetylsalicylic acid
A-032	CAD-22	10.0 pet	ACETAMINOPHEN
A-033	CAD-23	10.0 pet	Acyclovir
A-034	MET-34	0.1 aq	Ammonium hexachloroiridate(IV)
A-035	MET-38	1.0 aq	Ammonium molybdate (VI) tetrahydrate 🍣
A-036	F-32	5.0 pet	Amyl cinnamyl alcohol
A-037	F-33	10.0 sof	Anise alcohol
A-038	MET-48	10.0 pet	ALUMINUM HYDROXIDE
A-039	H-31	1.0 pet	4-AMINO-2-HYDROXYTOLUENE
B-001	S-15, ICB-19,	25.0 pet	Peru balsam² 🗞
	H-14, IS-7,		
	DMP-22		
B-002	V-12	3.0 pet	Beech tar 🗞
B-003	O-9	0.05 pet	BENZISOTHIAZOLINONE
B-004	S-6, ICB-1	5.0 pet	Benzocaine
B-005	B-12	5.0 pet	BENZOIC ACID
B-006	O-14,P-10	1.0 pet	BENZOTRIAZOLE
B-007	ICB-70, B-17,	1.0 pet	Benzoylperoxide
	PG-7, LU-10		
B-008B	ICB-58, C-34,	10.0 sof	BENZYL ALCOHOL 🗞
	F-16, P-12		
B-009	Deleted 2015		(BENZYLPARABEN)
	Deleted 2011		(BENZYL SALICYLATE)
			BENZYL SALICYLATE
B-011	V-14	•	Birch tar
B-013	PG-10	1.0 pet	'
B-014	7	1.0 pet	Bithionol

Art. No.	Serial no.	Conc %(w/w)	Name
		& Vehicle	

B-015A	C-31, H-19, O-29	0.25 pet	2-BROMO-2-NITROPROPANE-1,3-DIOL
B-015B	ICB-30	0.5 pet	2-BROMO-2-NITROPROPANE-1,3-DIOL
B-016	MP-13	0.1 pet	1,4-Butanediol diacrylate
B-017	DS-8, MA-7,	2.0 pet	1,4-Butanediol dimethacrylate 🤡
	DMP-9, DMS-7		
B-018	MN-1	0.1 pet	Butyl acrylate 🗞
B-019	O-8	1.0 pet	4-tert-Butylbenzoic acid
B-020	V-10	3.0 pet	BUTYLPARABEN
B-021	MA-2, MN-3, MP-7	2.0 pet	BUTYL METHACRYLATE 🗞
B-022	ICB-37, B-9,	2.0 pet	2-tert-Butyl-4-methoxyphenol (BHA)
	C-6, PG-18		
B-023	PG-20	1.0 pet	4-tert-Butylphenol
B-024	S-16, ICB-15, PG-13, SH-8, IS-	1.0 pet 11	4-tert-Butylphenolformaldehyde resin (PTBP)
B-025	V-23	10.0 alc	Tolu balsam absolute 🗞
B-026	TF-21	1.0 pet	Basic Red 46
B-027	LU-4	0.1 aq	BENZALKONIUM CHLORIDE 🗞
B-028	C-36	1.0 pet	t-BUTYL HYDROQUINONE
B-029B	7	5.0 pet	
B-029C	SU-1, EP-8, EPE-8	10.0 pet	BUTYL METHOXYDIBENZOYLMETHANE
B-030B	PG-8	0.25 pet	4-tert-Butylcatechol
B-031	CS-2	1.0 pet	Betamethasone-17-valerate
B-032A	ME-7, LU-6	5.0 pet	Bacitracin
B-032B	ICB-23	20.0 pet	Bacitracin
B-033A	ICB-45	0.1 pet	Budesonide
B-033B	S-24, CS-1,	0.01 pet	Budesonide
	LU-17, IS-15		
B-035	E-10	0.25 pet	Epoxy resin, Bisphenol F
B-036	E-12	•	1,4-Butanediol diglycidyl ether 🏖
B-037	SU-16, EP-9,	10.0 pet	BIS-ETHYLHEXYLOXYPHENOL
	EPE-9		METHOXYPHENOL TRIAZINE
B-038	F-34	10.0 pet	BENZYL BENZOATE
B-039	F-35		BENZYL CINNAMATE
B-040	F-36		BUTYLPHENYL METHYLPROPIONAL
B-041	EP-18, EPE-18		Benzydamine hydrochloride
B-042	CS-10	1.0 pet	, , ,
B-043	ME-17	5.0 pet	Bufexamac

Art. No.	Serial no.	Conc %(\ & Vehicle	
B-044	MET-54	1.0 pet	Beryllium(II)sulfate tetrahydrate
C-001	MET-33	1.0 aq	Cadmium chloride 🗞
C-002	F-19	2.0 pet	Cananga oil 🗞
C-003	C-29	5.0 pet	CETYL ALCOHOL
C-004	V-3	0.5 aq	CHLORHEXIDINE DIACETATE ⊗
C-005	C-16, LU-3	0.5 aq	CHLORHEXIDINE DIGLUCONATE ⊗
C-006	H-15, C-19,	0.2 pet	CHLOROACETAMIDE
	O-12, LU-24		
C-007A	S-21, H-24, C-40	1.0 pet	QUATERNIUM-15
C-007B	ICB-14, IS-16	2.0 pet	QUATERNIUM-15
C-008	C-11, H-21,	1.0 pet	p-CHLORO-m-CRESOL
	O-2, LU-16		
C-009A	7	0.01 aq	METHYLISOTHIAZOLINONE +
			METHYLCHLOROISOTHIAZOLINONE
C-009B	S-23, ICB-78,	0.02 aq	METHYLISOTHIAZOLINONE +
	C-35, IS-17, O-3	1,	METHYLCHLOROISOTHIAZOLINONE
	SH-20, H-18		
C-009C	7	0.01 pet	METHYLISOTHIAZOLINONE +
			METHYLCHLOROISOTHIAZOLINONE ³
C-009D	V-38	0.02 pet	METHYLISOTHIAZOLINONE +
			METHYLCHLOROISOTHIAZOLINONE³
	C-12, H-22, O-3		` ,
C-010B	ICB-35	1.0 pet	, ,
C-011	EPE-32	0.1 pet	
C-012	V-6	5.0 pet	Chlorquinaldol
C-013	B-7, F-2	2.0 pet	CINNAMYL ALCOHOL ®
C-014	ICB-6, B-8, F-1	1.0 pet	CINNAMAL ®
C-015	S-8, C-21	5.0 pet	Clioquinol
C-016	V-4	5.0 pet	Coal tar 🗞
C-017A	S-5, ICB-43, DS-12, H-8, IS-2	1.0 pet 22	Cobalt(II)chloride hexahydrate
C-017B	DMP-13	0.5 pet	Cobalt(II)chloride hexahydrate
C-018	ICB-76, C-33, H-1	71.0 aq	COCAMIDOPROPYL BETAINE 🗞
C-019	ICB-46, O-30	0.5 pet	COCAMIDE DEA
C-020	S-9, ICB-3,	20.0 pet	COLOPHONIUM
	DS-17, SH-11, IS-6, DMP-17		

Art. No.	Serial no.	Conc %(\ & Vehicle	
C-021	MET-11	5.0 pet	Copper(I)oxide
C-022	DS-21, MET-9	2.0 pet	Copper(II)sulfate pentahydrate
C-023	R-9	1.0 pet	N-Cyclohexyl-2-benzothiazolesulfenamide
C-024	R-5	1.0 pet	N-Cyclohexyl-N-phenyl-4-phenylenediamine
C-025	H-20	0.5 pet	Captan
C-026	DS-25	1.0 pet	BORNANEDIONE
C-027	PG-24	1.0 pet	Cyclohexanone resin
C-028	ICB-11, CS-6	1.0 pet	Clobetasol-17-propionate
C-029	PL-1	1.0 pet	Anthemis nobilis extract 🗞
C-031	PL-7	1.0 pet	Chrysanthemum Cinerariaefolium extract ⊘
C-032	ME-1, LU-9	5.0 pet	Chloramphenicol
C-033	LU-7	20.0 pet	CETEARYL ALCOHOL
C-034	R-25	1.0 pet	N-(Cyclohexylthio) phthalimide
C-035	DS-32, DMP-20	5.0 pet	CARVONE ②
C-036	F-26	2.0 pet	CITRAL
C-037	F-28	1.0 pet	CITRONELLOL @
C-038	F-30	5.0 pet	COUMARIN
C-040	CAD-4	10.0 pet	Cefotaxim sodium salt
C-041	CAD-9	10.0 pet	Clarithromycin
C-042	CAD-11	10.0 pet	Cotrimoxazole
C-043	CAD-13	10.0 pet	Ciprofloxacin hydrochloride
C-044	CAD-14	1.0 pet	Carbamazepine
C-045	CAD-17	5.0 pet	Captopril
C-046	CAD-26	10.0 pet	Clindamycin phosphate
C-047	CAD-27	10.0 pet	Cefradine
C-048	CAD-28	10.0 pet	Cefalexin monohydrate
C-049	MET-20	10.0 pet	CALCIUM TITANATE
C-050	H-36	0.5 pet	CETRIMONIUM BROMIDE
C-051	PL-14	1.0 pet	Chamomilla recutita extract 🗞
	H-32	0.5 pet	CYSTEAMINE HCL
C-053	CAD-31	10.0 pet	Cefuroxime sodium
C-054	CAD-32	10.0 pet	Cefixime trihydrate
C-055	CAD-34	10.0 pet	Cefpodoxime proxetil
D-001	E-2,I-3,R-18	0.5 pet	
D-002	H-2	1.0 pet	TOLUENE-2,5-DIAMINE SULFATE

Art. No.	Serial no.	Conc %(
D-003	R-10	1.0 pet	Dibenzothiazyl disulfide (MBTS)
D-005A	V-16	5.0 pet	Dibucaine hydrochloride
D-005B	ICB-69	2.5 pet	Dibucaine hydrochloride
D-006	B-5, C-7,	2.0 pet	BHT
	PG-5, LU-8		
D-007	PG-2	5.0 pet	Dibutyl phthalate
D-008	O-4	1.0 pet	DICHLOROPHENE
D-009	MP-15	0.1 pet	Di(ethylene glycol) diacrylate
D-010	E-5	1.0 pet	Diethylenetriamine, (DETA) 🗞
D-011	P-1	1.0 pet	N,N-DIETHYLTOLUENE-2,5-DIAMINE HCL
D-012	TF-8	4.5 aq	Dimethylol dihydroxy ethylene urea ❷
D-014	Deleted 1999		(Dimethylol propyleneurea)
D-015	O-20	1.0 pet	Bioban CS 1135 ❷
D-016	DS-6	5.0 pet	N,N-Dimethyl-4-toluidine
D-017	R-15	1.0 pet	N,N-Di-2-naphtyl-4-phenylenediamine
			(DBNPD)
D-018	PG-4	2.0 pet	Dioctyl phthalate (DEHP, DOP)
D-019	R-4	1.0 pet	Dipentamethylenethiuram disulfide
D-020	Deleted 2014		(DIPENTENE (oxidized))
D-021	V-34	1.0 pet	Diphenhydramine hydrochloride
D-022	ICB-17, R-12, SH-16	1.0 pet	1,3-Diphenylguanidine
D-023	Deleted 2012		(Diphenylmethane-4,4´-diisocyanate (MDI))
D-023B	I-2	0.5 pet	Diphenylmethane-4,4'-diisocyanate (MDI)
D-024	R-6	1.0 pet	N,N'-Diphenyl-p-phenylenediamine (DPPD)
D-025	PG-22, R-19,	1.0 pet	N,N'-Diphenylthiourea (DPTU)
	SH-13		
D-026	TF-6	1.0 pet	DISPERSE BLUE 3
D-027	TF-7	1.0 pet	Disperse Blue 35
D-028	TF-15	1.0 pet	Disperse Blue 85
D-029	TF-5	1.0 pet	Disperse Blue 153
D-030	TF-18	1.0 pet	Disperse Brown 1
D-031	TF-16	1.0 pet	Disperse Orange 1
D-032	ICB-25, TF-2, SH-3	1.0 pet	DISPERSE ORANGE 3
D-033	Deleted 1999		(Disperse Orange 13)

Art. No.	Serial no.	Conc %(\ & Vehicle	
D-034	TF-3	1.0 pet	Disperse Red 1
D-035	TF-4	1.0 pet	DISPERSE RED 17
D-036	ICB-51, TF-1	1.0 pet	Disperse Yellow 3
D-037	TF-19	1.0 pet	Disperse Yellow 9
D-038	SH-17, R-23	1.0 pet	N,N´-DibutyIthiourea
D-039	SH-15, R-22	1.0 pet	N,N'-Diethylthiourea
D-040	TF-11	1.0 pet	Disperse Blue 106
D-041	TF-20	1.0 pet	Disperse Blue 124
D-042	B-19, C-39	0.25 pet	DODECYL GALLATE
D-043	R-24, SH-19	0.1 pet	Dodecyl mercaptan 🗞
D-044A	C-42, H-26,	2.0 pet	DIAZOLIDINYL UREA
	IS-24, LU-25		
D-044B	7	2.0 aq	DIAZOLIDINYL UREA 🗞
D-044C	ICB-21	1.0 pet	DIAZOLIDINYL UREA
D-045	DS-26, MA-14,	0.2 pet	DIMETHYLAMINOETHYL
	DMP-7		METHACRYLATE < <p></p>
D-046	CS-7	1.0 pet	Dexamethasone-21-phosphate disodium salt
D-047A	C-44	2.0 aq	DMDM HYDANTOIN < ⊘
D-047B	ICB-56	1.0 pet	DMDM HYDANTOIN³ ⊘
D-048	PL-2	1.0 pet	Diallyl disulfide 🗞
D-049A	IS-20	0.3 pet	METHYLDIBROMO GLUTARONITRILE
D-049C	Deleted 2014	0.1 pet	(METHYLDIBROMO GLUTARONITRILE)
D-049E	S-26, ICB-27,	0.5 pet	METHYLDIBROMO GLUTARONITRILE
	O-34, C-45		
D-050	TF-10	5.0 aq	Dimethylol dihydroxy ethylene urea, modified ⊘
D-051	TF-31	5.0 pet	Direct Orange 34
D-052	TF-9	4.5 aq	Dimethyl dihydroxy ethylene urea 🏖
D-053	C-48, E-9	1.0 aq	3-(Dimethylamino)-1-propylamine 🏖
D-054	SH-23	1.0 pet	4,4`-Dithiodimorpholine
D-055	SU-11, EP-10, EPE-10	10.0 pet	DROMETRIZOLE TRISILOXANE
D-057	ICB-61, CS-9	1.0 pet	Desoximetasone
D-058	CAD-3	10.0 pet	Dicloxacillin sodium salt hydrate
D-059	CAD-5	10.0 pet	Doxycycline monohydrate
D-060	CAD-16	10.0 pet	Diltiazem hydrochloride
D-061A	CAD-19	1.0 pet	Diclofenac sodium salt

Art. No.	Serial no.	Conc %(\ & Vehicle	,
D-061B	EPE-30	5.0 pet	Diclofenac sodium salt
D-062	SU-18, EP-12, EPE-12	10.0 pet	2-(4-Diethylamino-2-hydroxybenzoyl) benzoic acid hexylester
D-063	SU-19, EP-16, EPE-16	10.0 pet	DIETHYLHEXYL BUTAMIDO TRIAZONE
D-064	SU-20, EPE-26	10.0 pet	Disodium phenyl dibenzimidazole tetrasulfonate
D-065	ICB-53, C-57, H-29, EP-20, EPE-34, SU-21	5.0 pet	DECYL GLUCOSIDE ³
D-066A	V-28	0.1 pet	Dimethyl fumarate 🗞
D-066B	V-29	0.01 pet	Dimethyl fumarate 🗞
D-067	EPE-27	1.0 pet	Dexketoprofen
E-001	MP-20	0.5 pet	Epoxy acrylate
E-002	S-14, ICB-13, IS-10, SH-18, DMP-23	1.0 pet	Epoxy resin, Bisphenol A
E-003	Deleted 2011		(Ethoxyquin)
E-004	ICB-39, MN-11, MP-1	0.1 pet	Ethyl acrylate ⊘
E-005	ICB-12, C-22, O-15, E-8, P-9	1.0 pet	Ethylenediamine dihydrochloride
E-006	V-2	1.0 pet	Ethylenediaminetetraacetic acid disodium salt dihydrate (Na ₂ EDTA)
E-007	DS-4, MA-5, MN-6, MP-10, DMP-3, DMS-3	2.0 pet	Ethylene glycol dimethacrylate 🏖
E-008	V-21	1.0 pet	Ethylene urea
E-009	MP-2	0.1 pet	2-Ethylhexyl acrylate 🗞
E-010	V-8	3.0 pet	ETHYLPARABEN
E-011	P-3	1.0 pet	N-Ethyl-N-(2-hydroxyethyl)-2-methyl- 1,4-phenylenediamine sulfate salt
E-012	MN-2, MP-6	2.0 pet	ETHYL METHACRYLATE < ⊘
E-013	P-2	1.0 pet	N-Ethyl-N-(2-methane- sulfonamidoethyl)-2-methyl-1,4- PPD-sesquisulfate, hydrate (CD-3)
E-014	O-11	0.5 pet	Bioban P 1487 🗞
E-015	DS-18, DMP-18	0.1 pet	N-Ethyl-p-toluenesulfonamide

Art. No.		Conc %(v & Vehicle	
E-016	B-2, DS-16, F-4,	2.0 pet	EUGENOL 🗞
	DMP-16, DMS-9		
E-017	PL-17	0.1 pet	Evernic acid
E-018B	7	5.0 pet	ETHYLHEXYL DIMETHYL PABA
E-018C	7	5.0 alc	ETHYLHEXYL DIMETHYL PABA 🗞
E-018D	SU-5	10.0 pet	ETHYLHEXYL DIMETHYL PABA
E-019B	7	7.5 pet	ETHYLHEXYL METHOXYCINNAMATE
E-019C	SU-7, EP-4. EPE-4	10.0 pet	ETHYLHEXYL METHOXYCINNAMATE
E-020	E-7	0.5 pet	Epoxy resin, cycloaliphatic
E-021	ME-11	1.0 alc	Econazole nitrate 🏖
E-022	LU-15	5.0 pet	Eosin
E-023	MA-15		ETHYL CYANOACRYLATE 🗞
E-024	CAD-7		Erythromycin base
E-025	EP-15, EPE-15	2.0 pet	Etofenamate
E-026	F-37	1.0 pet	Treemoss absolute 🏈
E-027	C-58	5.0 pet	
F-001	7	1.0 pet	
F-002A	7	1.0 aq	FORMALDEHYDE ®
F-002B	S-18, ICB-77,	2.0 aq	FORMALDEHYDE 🗞
	DS-19, H-6, IS-5	,	
	O-25, SH-12		
F-002C	7	1.0 pet	
F-003	ICB-68, LU-2, ME-13	2.0 pet	Fusidic acid sodium salt
F-004	F-27	5.0 pet	FARNESOL
F-005	LU-19, ME-8	20.0 pet	Framycetin sulphate
F-006	EPE-31	10.0 pet	Fenofibrate
G-001	F-6	2.0 pet	GERANIOL ❷
G-002	F-22	2.0 pet	Geranium oil 🗞
G-003A	DS-34, SH-2,	0.2 pet	GLUTARAL ² ⊘
	P-11, DMS-10		
G-003B	ICB-29	0.5 pet	GLUTARAL ² ⊘
G-004	ICB-40, H-16	1.0 pet	GLYCERYL THIOGLYCOLATE 🗞
	ICB-38, MET-10	•	Gold(I)sodium thiosulfate dihydrate
G-005B	DS-14, DMP-14, MET-8	2.0 pet	Gold(I)sodium thiosulfate dihydrate

Art. No.		Conc %(v & Vehicle	
G-006	ME-5	20.0 pet	Gentamicin sulfate
G-007	MET-44	1.0 pet	Gallium(III)oxide
H-001	7	1.0 pet	Hexachlorophene
H-002	C-20, O-10	1.0 aq	Hexahydro-1,3,5-tris-(2-hydroxyethyl) triazine ❷
H-003	C-15, E-1, R-17	2.0 pet	METHENAMINE
H-004	DS-27, MA-11,	0.1 pet	1,6-Hexanediol diacrylate
	MN-8, MP-14, DMP-10		
H-005	O-23	1.0 pet	Hydrazine sulfate
H-006	H-12	3.0 aq	HYDROGEN PEROXIDE ፟
H-007	H-13, PG-1, P-5	•	HYDROQUINONE
H-008	F-8	2.0 pet	HYDROXYCITRONELLAL
H-009	MN-12, MP-3	0.1 pet	2-Hydroxyethyl acrylate
H-010	ICB-55, DS-13,	2.0 pet	2-Hydroxyethyl methacrylate
	MA-3, MN-4, MP-8, DMP-6, DMS-5		
H-011	P-7	0.1 aq	HYDROXYLAMINE HCL ❷
H-012	P-13	0.1 aq	HYDROXYLAMINE SULFATE ⊗
H-013	DS-5, MA-10,	2.0 pet	Bisphenol A glycerolate dimethacrylate
	DMP-4, DMS-4		(BIS-GMA)
H-014C	ICB-34, C-25,	10.0 pet	BENZOPHENONE-3
	DS-7, SU-6 EP-1, EPE-1		
H-015	O-21	1.0 pet	TRIS(HYDROXYMETHYL)NITRO- METHANE
H-016	C-37, DS-28,	1.0 pet	DROMETRIZOLE
	PG-6, DMP-21		
H-017	MP-4	0.1 pet	Hydroxypropyl acrylate 🏖
H-018	MA-4, MN-5,	2.0 pet	Hydroxypropyl methacrylate 🗞
	MP-9		
H-019	SH-5	1.0 pet	Hydroquinone monobenzylether
H-020B	EPE-21, SU-8	10.0 pet	BENZOPHENONE-10
H-021A		1.0 alc	Hydrocortisone-17-butyrate 🗞
H-021B	IS-26	1.0 pet	Hydrocortisone-17-butyrate
H-022	I-6	0.1 pet	Hexamethylene diisocyanate (HDI)
H-023B	7	10.0 pet	BENZOPHENONE-4

Art. No.	Serial no.	Conc %(v & Vehicle	
H-023C	EP-2, EPE-2,	2.0 pet	BENZOPHENONE-4
	SU-10		
H-024A	SU-3	5.0 pet	HOMOSALATE
H-024B	EPE-23	10.0 pet	HOMOSALATE
H-025	F-29	10.0 pet	Hexyl cinnamic aldehyde
H-026	E-11	0.25 pet	1,6-Hexanediol diglycidylether 🇞
H-027	CAD-15	10.0 pet	Hydantoin
H-028	CAD-24	1.0 pet	Hydroxyzine hydrochloride
H-029	CAD-25	10.0 pet	Hydrochlorotiazide
H-031A	ICB-74, F-43	1.0 pet	Hydroperoxides of Linalool 🗞
H-031B	F-46	0.5 pet	Hydroperoxides of Linalool 🗞
H-032A	ICB-60, B-15, F-44, O-27	0.3 pet	Hydroperoxides of Limonene 🏖
H-032B	F-47	0.2 pet	Hydroperoxides of Limonene
H-033	H-34	2.0 pet	HYDROXYETHYL-p-PHENYLENE- DIAMINE SULFATE
H-034	CS-13	1.0 pet	Hydrocortisone-21-acetate
I-001A	ICB-5, C-14,	2.0 pet	IMIDAZOLIDINYL UREA
	H-23, LU-26		
I-001B	IS-18	2.0 aq	IMIDAZOLIDINYL UREA 🗞
I-002	B-3, F-5	2.0 pet	ISOEUGENOL ❷
I-003	ICB-59, C-1	20.0 pet	ISOPROPYL MYRISTATE
I-004	S-11, IS-28, SH-1, R-7	0.1 pet	N-Isopropyl-N-phenyl-4- phenylenediamine (IPPD)
I-005	Deleted 1999		(4-Isopropyl-dibenzoylmethane)
I-006	E-6, I-5	0.1 pet	Isophorone diamine (IPD) 🗞
I-007	I-4	1.0 pet	ISOPHORONE DIISOCYANATE (IPDI) 🗞
I-008C	ICB-63, C-47, O-35	0.2 pet	IODOPROPYNYL BUTYLCARBAMATE
I-009	ICB-71, SU-15,	10.0 pet	ISOAMYL p-METHOXYCINNAMATE
	EP-6, EPE-6		
I-010A	CAD-29	•	Ibuprofen
I-010B	EPE-29	5.0 pet	Ibuprofen
I-011	MET-35	•	Indium(III)chloride
I-012	MET-13	1.0 pet	Iridium(III)chloride trihydrate
I-013	MET-37	10.0 aq	\ /
I-014	MET-14	1.0 pet	Iridium
I-015	MET-15	1.0 pet	Indium

Art. No.		Conc %(v & Vehicle	
I-016	MET-29	2.0 pet	FERRIC CHLORIDE
I-017	F-38	10.0 pet	α-Isomethyl ionone <a>®
I-018	Deleted 2018		(Imipenem monohydrate)
J-001	F-14	2.0 pet	Jasmine synthetic 🗞
J-002	F-23	2.0 pet	Jasmine absolute 🗞
J-003	V-13	3.0 pet	Juniperus oxycedrus extract 🗞
K-001	ME-2	10.0 pet	Kanamycin sulfate
K-002B	CAD-20, EP-11,	1.0 pet	Ketoprofen
	EPE-11		
L-001	F-18	2.0 pet	Lavender absolute 🗞
L-002A	V-25	5.0 pet	Lidocaine
L-002B	ICB-67	15.0 pet	Lidocaine
L-003	S-28, ICB-72, F-25, IS-27	5.0 pet	HYDROXYISOHEXYL 3-CYCLOHEX- ENE CARBOXALDEHYDE
L-004	C-49, H-27	3.0 pet	LAURYL POLYGLUCOSE 🗞
L-005B	F-40	10.0 pet	LINALOOL 🗞
L-006C	F-39	10.0 pet	d-Limonene 🗞
L-007	MET-36	0.5 aq	Lead(II)acetate trihydrate 🏖
L-008	MET-40	0.2 aq	Lead(II)chloride 🗞
L-009	CAD-30	10.0 pet	Lamotrigine
M-001	TF-14	7.0 pet	,
M-002	B-6	2.0 pet	MENTHOL 🗞
M-003A	S-17, IS-14, O-16 R-8, SH-14	, 2.0 pet	2-Mercaptobenzothiazole (MBT)
M-003B	ICB-2	1.0 pet	2-Mercaptobenzothiazole (MBT)
M-004	MET-3	0.1 pet	Mercury(II)chloride
M-005	DS-11, DMP-12,	0.5 pet	Mercury 🗞
	DMS-8, MET-2		
M-006B	DS-33, DMP-5, MP-12	2.0 pet	2,2-bis(4-(2-Methacryl-oxyethoxy) phenyl)-propane (BIS-EMA)
M-007	DS-9, MA-9	2.0 pet	Bisphenol A dimethacrylate (BIS-MA)
M-008	S-22	0.01 pet	2-Methoxy-6-n-pentyl-4-benzoquinone
M-009	P-4	1.0 pet	p-METHYLAMINOPHENOL SULFATE
M-010A	V-32	1.0 pet	6-METHYL COUMARIN
M-010B	7	1.0 alc	6-METHYL COUMARIN < ⊘
M-012	V-7	3.0 pet	METHYLPARABEN

Art. No.	Serial no.	Conc %(v & Vehicle	
M-013	ICB-42, DS-1,	2.0 pet	Methyl methacrylate ②
	MA-1, MP-5,		
	DMP-1, DMS-1		
M-014	O-13	0.1 pet	N-Methylolchloroacetamide
M-015	PG-21	1.0 pet	2-Monomethylol phenol
M-016	R-11	1.0 pet	2-(4-MorpholinyImercapto)benzothiazol
			(MOR)
M-018	F-13	1.0 pet	MUSK KETONE
M-019	F-12	1.0 pet	Musk moskene
M-020	Deleted 1999		(Musk tibetine)
M-021	F-10	1.0 pet	Musk xylene
M-022	MET-5	1.0 pet	Mercury(II)amidochloride
M-023	MP-24	1.0 pet	N,N-Methylene-bisacrylamide
M-024B	SU-4, EP-3,	10.0 pet	4-METHYLBENZYLIDENE CAMPHOR
	EPE-3		
M-025	DS-22	1.0 pet	Methylhydroquinone
M-026	PL-9	0.01 pet	α-Methylene-γ-butyrolactone 🗞
M-027	ME-10	1.0 alc	Miconazole 🗞
M-028	F-11	5.0 pet	METHYL ANTHRANILATE
M-029	CAD-6		Minocycline hydrochloride
M-030	MET-23	5.0 pet	-
M-031	MET-25	2.0 pet	MANGANESE CHLORIDE
M-032	V-35	10.0 pet	Methylene bis-benzotriazolyl
			tetramethylbutylphenol 🏽
M-033	F-42	5.0 pet	Majanthole
M-034	F-41	0.2 pet	Methyl-2-octynoate
M-035A		0.02 aq	METHYLISOTHIAZOLINONE ②
M-035B	S-29, ICB-54, C-54, IS-32	0.2 aq	METHYLISOTHIAZOLINONE
M-035C	7	0.05 aq	METHYLISOTHIAZOLINONE 🗞
M-035D	V-39	0.02 pet	METHYLISOTHIAZOLINONE3 🗞
M-036	CS-11	1.0 pet	Methylprednisolone aceponate
M-037	EP-14, EPE-14 SU-17	10.0 pet	Methylene bis-benzotriazolyl tetramethyl-butylphenol
M-038	MET-49	0.5 pet	Molybdenum(V)chloride
M-039	H-33	1.0 pet	2-METHYLRESORCINOL
M-040	H-35	1.0 pet	p-METHYLAMINOPHENOL

Art. No.	Serial no.	Conc %(v & Vehicle	
Mx-01	S-3, ICB-10, IS-3, SH-6	1.0 pet	Thiuram mix
		0.25	-Dipentamethylenethiuram disulfide (D-019)
		0.25 -Tetraethylthiuram disulfide	-Tetraethylthiuram disulfide
		0.25	(TETD) (T-002) -Tetramethylthiuram disulfide
		0.25	(TMTD) (T-005) -Tetramethylthiuram monosulfide (TMTM) (T-006)
Mx-02	V-27	6.0 pet	Quinoline mix
		3.0	-Chlorquinaldol (C-012)
		3.0	-Clioquinol (C-015)
Mx-03A	ICB-26	12.0 pet	t Paraben mix
		3.0	-BUTYLPARABEN (B-020)
		3.0	-ETHYLPARABEN (E-010)
		3.0	-METHYLPARABEN (M-012)
		3.0	-PROPYLPARABEN (P-020)
Mx-03C	S-10, C-17, IS-2	2916.0 pet	t Paraben mix
		4.0	-BUTYLPARABEN (B-020)
		4.0	-ETHYLPARABEN (E-010)
		4.0	-METHYLPARABEN (M-012)
		4.0	-PROPYLPARABEN (P-020)
Mx-04	V-26	0.6 pet	Black rubber mix
		0.25	-N-Cyclohexyl-N-phenyl-4-phenylene-
			diamine (C-024)
		0.25	-N,N'-Diphenyl-p-phenylenediamine (D-024)
		0.1	-N-Isopropyl-N-phenyl-4-phenylene- diamine (IPPD) (I-004)

Art. No.	Serial no.	Conc %(
Mx-05A	S-13, IS-9	2.0 pet 0.5	Mercapto mix -N-Cyclohexyl-2-benzothiazyl- sulfenamide (C-023)
		0.5 0.5 0.5	-Dibenzothiazyl disulfide (MBTS) (D-003) - 2-Mercaptobenzothiazole (MBT) (M-003) -2-(4-Morpholinylmercapto)benzo- thiazol (MOR) (M-016)
Mx-05B	ICB-16	1.0 pet 0.25 0.25 0.25 0.25	Mercapto mix -N-Cyclohexyl-2-benzothiazyl- sulfenamide (C-023) -Dibenzothiazyl disulfide (MBTS) (D-003) - 2-Mercaptobenzothiazole (MBT) (M-003) -2-(4-Morpholinylmercapto)benzo- thiazol (MOR) (M-016)
Mx-06	ICB-8, IS-21	3.0 pet 1.0 1.0	Carba mix -1,3-Diphenylguanidine 1.0 D-022 -ZINC DIBUTYLDITHIOCARBAMATE (ZBC) Z-002 -Zinc diethyldithiocarbamate (ZDC) (Z-003)
Mx-07	S-19, ICB-28, IS-12	8.0 pet	-AMYL CINNAMAL (A-014) -CINNAMYL ALCOHOL (C-013) -CINNAMAL (C-014) -EUGENOL (E-016) -GERANIOL (G-001) -HYDROXYCITRONELLAL (H-008) -ISOEUGENOL (I-002) -Oakmoss absolute (O-001)
Mx-08	F-45	6.0 pet 1.0 1.0 1.0	Perfume mix ³ -CINNAMYL ALCOHOL (C-013) -CINNAMAL (C-014) -EUGENOL (E-016)

Art. No.	Serial no.	Conc %(\ & Vehicle	w/w) Name
		1.0	-GERANIOL (G-001)
		1.0	-HYDROXYCITRONELLAL (H-008)
		1.0	-ISOEUGENOL (I-002)
Mx-09	Deleted 2014		(Wood mix)
Mx-10B	C-55	3.0 pet	Musk mix
		1.0	-MUSK KETONE (M-018)
		1.0	-MUSK moskene (M-019)
		1.0	-MUSK xylene (M-021)
Mx-11	V-17	1.0 pet	Naphthyl mix
		0.5	-N,N-Di-2-naphtyl-4-phenylene-
		0.5	diamine (DBNPD) (D-017)
		0.5	-N-Phenyl-2-naphtylamine (PBN) (P-009)
Mx-12	V-18	3.5 pet	
		2.5	-Dibucaine hydrochloride (D-005)
		1.0	-Procaine hydrochloride (P-016)
Mx-13	V-19	10.0 pet	Caine mix II
		2.5	-Dibucaine hydrochloride (D-005)
		5.0	-Lidocaine (L-002)
		2.5	-Tetracaine hydrochloride (T-025)
Mx-14	LU-27	12.0 pet	Wood tar mix ❷
		3.0	-Beech tar (B-002)
		3.0	-Birch tar (B-011)
		3.0	-Juniperus oxycedrus extract (3.0)
		3.0	-Pine tar (P-012)
Mx-15	PL-12	0.3 pet	Lichen acid mix
		0.1	-Atranorin (A-016)
		0.1	-Evernic acid (E-017)
		0.1	-(+)-Usnic acid (U-005)

& Vehicle	
Mx-16 ICB-36, TF-12 5.0 pet Ethyleneurea, melamine formaldehyd mix ²	le
4.0 -Dimethylol dihydroxy ethylene urea (D-0	12)
1.0 -Melamine formaldehyde (M-001)	
Mx-17D Deleted 2011 (Euxyl K 400)	
Mx-18 S-20, ICB-31, 0.1 pet Sesquiterpene lactone mix IS-30, PL-8	
0.033 -Alantolactone (A-003)	
0.033 -Costunolide (C-039)	
0.033 -Dehydrocostus lactone (D-056)	
Mx-19 ME-9 10.0 pet Caine mix III	
5.0 -Benzocaine (B-004)	
2.5 -Dibucaine hydrochloride (D-005)	
2.5 -Tetracaine hydrochloride (T-025)	
Mx-20 ME-12 10.0 pet Caine mix IV	
5.0 -Lidocaine (L-002)	
2.5 -Amylocaine hydrochloride (A-020)	
2.5 -Prilocaine hydrochloride (P-027)	
Mx-21C V-37 30 pet Dermatophagoides mix (Pteronyssin Pharinae 50/50)	ıs/
Mx-22A Deleted 2011 (Compositae mix I)	
Mx-23 CS-12 2.1 pet Corticosteroid mix	
1.0 -Hydrocortisone-17-butyrate (H-021)
1.0 -Tixocortol-21-pivalate (T-031)	
0.1 -Budesonide (B-033)	
Mx-24 ICB-24 1.0 pet Mixed dialkyl thiourea	
0.5 -N,N´-Dibutylthiourea (D-038)	
0.5 -N,N'-Diethylthiourea (D-039)	

Art. No.	Serial no.	Conc %(\ & Vehicle	
Mx-25	S-27, ICB-50, F-31, IS-25	14.0 pet	Fragrance mix II 🖉
		5.0	-Hexyl cinnamic aldehyde (H-025)
		2.5	-COUMARIN (C-038)
		2.5	-FARNESOL (F-004)
		2.5	-HYDROXYISOHEXYL (L-003)
		1.0	-CITRAL (C-036)
		0.5	-CITRONELLOL (C-037)
Mx-26	ICB-65, TF-33	1.0 pet	Disperse Blue mix 106/124
		0.5	-Disperse Blue 106 (D-040)
		0.5	-Disperse Blue 124 (D-041)
Mx-27	7	1.5 pet	Thiourea mix
		0.5	-N,N´-Dibutylthiourea (D-038)
		0.5	-N,N'-Diethylthiourea (D-039)
		0.5	-N,N`-Diphenylthiourea (D-025)
Mx-28	B-20, C-60	1.5 pet	Gallate mix
		0.5	-DODECYL GALLATE (D-042)
		0.5	-PROPYL GALLATE (P-021)
		0.5	-Octyl GALLATE (O-002)
Mx-29A	ICB-66, IS-23	5.0 pet	Compositae mix II ⊘
		1.2	-Anthemis nobilis extract (C-029)
		1.2	-Chamomilla recutita extract (C-051)
		1.0	-Achillea millefolium extract (A-025)
		1.0	-Tanacetum vulgare extract (T-033)
		0.5	-Arnica montana extract (A-024)
		0.1	-Parthenolide (P-029)
Mx-29B	7	2.5 pet	Compositae mix II 🗞
		0.6	-Anthemis nobilis extract (C-029)
		0.6	-Chamomilla recutita extract (C-051)
		0.5	-Achillea millefolium extract (A-025)
		0.5	-Tanacetum vulgare extract (T-033)
		0.25	-Arnica montana extract (A-024)
		0.05	-Parthenolide (P-029)

Art. No.	Serial no.	Conc %(w & Vehicle	ı/w) Name
Mx-30	S-30, ICB-48, TF-34	6.6 pet	Textile dye mix
		1.0	-Diperse Blue 35 (D-027)
		1.0	-Diperse Orange 1 (D-031)
		1.0	-DISPERSE ORANGE 3 (D-032)
		1.0	-Disperse Red 1 (D-034)
		1.0	-DISPERSE RED 17 (D-035)
		1.0	-Disperse Yellow 3 (D-036)
		0.3	-Disperse Blue 106 (D-040)
		0.3	-Disperse Blue 124 (D-041)
Mx-31	7	7.0 pet	Caine mix V
		5.0	-Benzocaine (B-004)
		1.0	-Dibucaine hydrochloride (D-005)
		1.0	-Tetracaine hydrochloride (T-025)
N-001	S-4, ICB-9, IS-2	20.0 pet	Neomycin sulfate
N-002A	S-7, H-7, SH-10 DS-15, DMP-15		Nickel(II)sulfate hexahydrate
N-002B	ICB-20, IS-13	2.5 pet	Nickel(II)sulfate hexahydrate
N-003	Deleted 2015		(SOLVENT BLACK 5)
N-004	H-3	1.0 pet	2-NITRO-p-PHENYLENEDIAMINE
N-005	ME-6, LU-5	1.0 pet	Nitrofurazone
N-006	F-9	2.0 pet	Narcissus poeticus absolute 🗞
N-007	CAD-12	10.0 pet	Norfloxacin
N-008	MET-50	0.2 pet	Niobium(V)chloride
O-001	F-7	2.0 pet	Oakmoss absolute ² 🗞
O-002	B-14, C-8	•	Octyl gallate
O-003	MP-19		Oligotriacrylate (OTA 480)
O-004	O-33, SH-22, PG-23, ICB-64	0.1 pet	2-n-Octyl-4-isothiazolin-3-one 🗞
O-005	ICB-80, C-56, H-28	0.1 aq	OLEAMIDOPROPYL DIMETHYLAMINE 🗞
O-006	Deleted 2017		(OLEA EUROPAEA OIL)
O-007A	ICB-73, SU-13	5.0 pet	ETHYLHEXYL SALICYLATE
O-007B	EPE-24	10.0 pet	ETHYLHEXYL SALICYLATE
O-008	EPE-33	1.0 pet	Olaquindox
O-009	SU-12, EP-5, EPE-5	10.0 pet	OCTOCRYLENE

Art. No.		Conc %(v & Vehicle	
O-010	SU-14, EP-13, EPE-13	10.0 pet	ETHYLHEXYL TRIAZONE
P-001	DS-23, DMP-19,	2.0 pet	Palladium(II)chloride
	MET-7		
P-002	MP-18	0.1 pet	Pentaerythritol triacrylate 🗞
P-003	V-5	100	PETROLATUM
P-004	P-6	1.0 pet	1-Phenyl-3-pyrazolidinone
P-005	PG-12	1.0 pet	Phenol formaldehyde resin (PFR2) 🗞
P-006	S-2, H-1, ICB-4, SH-9, IS-4	1.0 pet	p-PHENYLENEDIAMINE (PPD)
P-007	PG-17	2.0 pet	2-Phenylindole
P-008	C-18, LU-23, MET-30	0.01 aq	PHENYL MERCURIC ACETATE 🗞
P-009	R-16	1.0 pet	N-Phenyl-2-naphtylamine (PBN)
P-010	O-5	1.0 pet	o-PHENYLPHENOL
P-011	C-24, PG-3	1.0 pet	PHENYL SALICYLATE
P-012	V-11	3.0 pet	Pine tar 🗞
P-013	ICB-62, C-4	5.0 pet	POLYSORBATE 80
P-014A	S-1, DS-10, SH-7,	0.5 pet	Potassium dichromate
	P-14, IS-1, DMP-1	1	
P-014B	ICB-18	0.25 pet	Potassium dichromate
P-015	MET-31	0.1 aq	Potassium dicyanoaurate(I)
P-016	V-15	1.0 pet	Procaine hydrochloride
P-017A	7	1.0 pet	Promethazine hydrochloride
P-017B	EP-19, EPE-19	0.1 pet	Promethazine hydrochloride
P-018	B-13	3.0 pet	PROPIONIC ACID 🗞
P-019A	C-27, O-6, LU-11	5.0 pet	PROPYLENE GLYCOL 🗞
P-019B	ICB-79	30.0 aq	PROPYLENE GLYCOL ®
P-019C	Deleted 2017		(PROPYLENE GLYCOL)
P-020	V-9	3.0 pet	PROPYLPARABEN
P-021	B-18, C-38	1.0 pet	PROPYL GALLATE
P-022	ICB-33, PL-6, LU-12	10.0 pet	Propolis
P-023	E-4	0.25 pet	2-Phenyl glycidyl ether 🗞
P-024B	SU-9, EPE-22	10.0 pet	PHENYLBENZIMIDAZOLE SULFONIC ACID
P-025	C-41, O-32	1.0 pet	PHENOXYETHANOL 🗞

Art. No.	Serial no.	Conc %(w/w)	Name
		& Vehicle	

P-026	Deleted 2007		(Polymyxin B sulfate)
P-027A	V-1	5.0 pet	Prilocaine hydrochloride
P-028	V-20	0.5 pet	p-PHENYLENEDIAMINE HCL
P-029	PL-13	0.1 pet	Parthenolide
P-030	Deleted 2014		(Phosphorus sesquisulfide)
P-031	Deleted 2018		(Penicillin G, potassium salt)
P-032	CAD-10	10.0 pet	Pristinamycin
P-033	CAD-21, EP-17,	1.0 pet	Piroxicam
	EPE-17		
P-034	7	100	Polyethylene glycol 400 (PEG 400)
P-035	EPE-25	10.0 pet	Polysilicone-15
P-036	C-50	2.0 pet	Peppermint oil
P-038	I-7	2.0 pet	Polymeric diphenylmethane
			diisocyanate (PMDI)
P-039	ME-18	2.0 pet	Pramoxine hydrochloride
P-040	CAD-35	•	Potassium clavulanate
P-041	ME-19		Phenylbutazone
Q-001	ME-3	1.0 pet	Quinine sulfate
R-001	H-9		RESORCINOL
R-002	PG-16	- 1	Resorcinol monobenzoate
R-003	F-20	- 1	Rose absolute ②
R-004B	TF-22	- 1	Reactive Black 5
R-005B	TF-23	1.0 pet	Reactive Blue 21
R-006B	Deleted 2016		(Reactive Blue 238)
	TF-25	1.0 pet	Reactive Orange 107
R-008B	TF-26	1.0 pet	Reactive Red 123
R-009B	TF-27	- 1	Reactive Red 238
R-010B	TF-28		Reactive Red 228
R-011B	TF-29	- 1	Reactive Violet 5
R-012	MET-45		Ruthenium
R-013	MET-53	2.0 pet	Rhodium(III)chloride hydrate
S-001	B-4	5.0 pet	SODIUM BENZOATE
S-002	C-32,O-28	0.1 aq	Sodium-2-pyridinethiol-1-oxide
S-003	B-11, C-10, LU-14	•	SORBIC ACID
S-004	C-5, LU-22	5.0 pet	SORBITAN OLEATE
S-005	C-26, LU-20	•	SORBITAN SESQUIOLEATE
S-006	C-28	30.0 pet	STEARYL ALCOHOL

Art. No.	Serial no.	Conc %(\ & Vehicle	
S-007	MET-32	1.0 aq	SILVER NITRATE 🗞
S-008	F-48	2.0 pet	Styrax 🗞
S-009	F-24	2.0 pet	Sandalwood oil 🗞
S-010	ME-4	5.0 pet	Sulfanilamide
S-011	C-59, H-37	1.0 pet	SODIUM METABISULFITE
S-012	CAD-8	10.0 pet	Spiramycin base
S-013	MET-39	1.0 pet	STANNOUS CHLORIDE
S-014	MET-26	1.0 pet	Tin(II)oxalate
S-015	C-51	20.0 alc	SHELLAC 🗞
S-016	V-30	100	Softisan 649
S-017	DMP-24, DS-31, MET-43	3.0 pet	Sodium tetrachloropalladate(II) hydrate
S-018	V-36	0.25 aq	SODIUM LAURYL SULFATE
S-019	MET-46	2.0 aq	Sodium tungstate dihydrate ②
T-001	V-33	0.1 pet	3,3',4',5-Tetrachlorosalicylanilide (TCS)
T-002	R-3	1.0 pet	Tetraethylthiuram disulfide (TETD)
T-003	Deleted 1999		(Tetramethylol acetylenediurea)
T-004	Deleted 2014		(3,3´,5,5´-Tetramethylbenzidine)
T-005	R-1	1.0 pet	Tetramethylthiuram disulfide (TMTD)
T-006	R-2	1.0 pet	Tetramethylthiuram monosulfide (TMTM)
T-007	ICB-32, C-13,	0.1 pet	THIMEROSAL
	O-22, LU-13		
T-008	DS-30, MET-12	50.0 pet	Tin
T-009	I-1	2.0 pet	Toluene-2,4-diisocyanate (TDI) ❷
T-010	ICB-41, IS-31,	10.0 pet	Toluenesulfonamide formaldehyde resin
	PG-15		
T-011	DS-20	2.0 pet	4-Tolyldiethanolamine
T-012	7	1.0 pet	3,4,5-Tribromosalicylanilide (TBS)
T-013	O-24, EPE-20	1.0 pet	TRICLOCARBAN
T-014	C-9, O-18, EPE-28	2.0 pet	TRICLOSAN
T-015	PG-11, P-16	E O not	Triargey phoophoto
T-015	ICB-47, C-3,	5.0 pet 2.0 pet	Tricresyl phosphate TRIETHANOLAMINE
1-016	O-7, LU-18	2.0 pet	TRIETHANOLAWIINE
T-017	MN-13, MP-23	0.1 pet	Triethylene glycol diacrylate 🗞
T-018	DS-2, MA-6, MN-7, MP-11, DMP-2, DMS-2	2.0 pet	Triethylene glycol dimethacrylate

Art. No.	Serial no.	Conc %(\ & Vehicle	
T-019	E-3	0.5 pet	Triethylenetetramine (TETA)
T-020	R-21	1.0 pet	2,2,4-Trimethyl-1,2-dihydroquinoline
T-021	MN-9, MP-17	0.1 pet	Trimethylolpropane triacrylate 🗞
T-022	PG-14	5.0 pet	Triphenyl phosphate
T-023	MP-16	0.1 pet	Tri(propylene glycol) diacrylate 🗞
T-024A	Deleted 2011		(Turpentine peroxides)
T-024B	C-53	0.4 pet	Turpentine oil oxidized ⊗
T-025A	V-22	5.0 pet	Tetracaine hydrochloride
T-026	R-26	0.1 pet	Thiourea
T-027	DS-29, MA-12,	2.0 pet	Tetrahydrofurfuryl methacrylate 🗞
	MN-10, DMP-8,		
	DMS-6		
T-028	PG-25	0.5 pet	Triglycidyl isocyanurate, (TGIC)
T-029	MA-13	2.0 pet	Tetraethylene glycol dimethacrylate
T-030	CS-3	1.0 pet	Triamcinolone acetonide
T-031A	ICB-44	1.0 pet	Tixocortol-21-pivalate
T-031B	S-25, IS-19,	0.1 pet	Tixocortol-21-pivalate
	CS-4, LU-21		
T-032	PL-4	2.5 pet	Taraxacum officinale extract 🗞
T-033	PL-10	1.0 pet	Tanacetum vulgare extract 🏖
T-034	ME-14	1.0 pet	Tioconazole
T-035B	ICB-49, C-46	5.0 pet	Tea tree oil oxidized 🏖
T-036	ICB-22, C-43	100	TOCOPHEROL 🗞
T-037B	C-52	10.0 pet	TOCOPHERYL ACETATE
T-038	E-14	0.25 pet	Trimethylolpropane triglycidyl ether 🗞
T-039	MET-16	5.0 pet	Titanium(III)nitride
T-040	MET-17	•	TITANIUM DIOXIDE
T-041	MET-19	5.0 pet	Titanium(IV)oxalate hydrate
T-042	MET-21	10.0 pet	Titanium
T-043	MET-28	5.0 pet	Tungsten
T-044	Deleted		
T-045	Deleted		(Terephtalylidene dicamphor sulphonic acid (Mexoryl SX))
T-046	Deleted		(Turpentine peroxides)
T-047	MET-51	1.0 pet	Tantalum
T-048	E-15	0.5 pet	2,4,6-Tris(dimethylaminomethyl)phenol 🗞
T-049	H-30	1.0 pet	TOLUENE-2,5-DIAMINE

Art. No.	Serial no.	Conc %(w/w) Name & Vehicle
T-050	ME-15	20.0 pet Tobramycin
U-001	TF-13	10.0 pet Urea formaldehyde resin
U-002	MP-21	0.1 pet Urethane diacrylate, aliphatic
U-003	MP-22	0.05 pet Urethane diacrylate, aromatic
U-004	DS-3, MA-8	2.0 pet Urethane dimethacrylate ❷
U-005	PL-15	0.1 pet (+)-Usnic acid
V-001	B-1, F-17	10.0 pet VANILLIN
V-002	MET-22	5.0 pet Vanadium
V-003	MET-24	1.0 pet Vanadium(III)chloride
V-004	ME-16	10.0 aq Vancomycin hydrochloride 🗞
V-005	MET-47	10.0 pet Vanadium(V)oxide
W-001	S-12, IS-8	30.0 pet LANOLIN ALCOHOL
X-001	E-13	0.1 pet m-Xylylenediamine
Y-001	ICB-57, F-21	2.0 pet Ylang ylang oil ❷
Z-001	MET-1	2.5 pet Zinc
Z-002	R-14	1.0 pet ZINC DIBUTYLDITHIOCARBAMATE (ZBC)
Z-003	R-13	1.0 pet Zinc diethyldithiocarbamate (ZDC)
Z-004	R-20	1.0 pet Zinc dimethyldithiocarbamate (Ziram)
Z-005	O-17	1.0 pet Zinc ethylenebis-(dithiocarbamate) (Zineb)
Z-006	H-25	1.0 pet ZINC PYRITHIONE
Z-007A	Deleted 2011	(ZINC CHLORIDE)
Z-007B	MET-18	1.0 pet ZINC CHLORIDE
Z-008	MET-27	1.0 pet Zirconium(IV)chloride
Z-009	MET-52	0.1 pet ZIRCONIUM DIOXIDE

Abbreviations in Hapten Information

CAS: Chemical Abstract Service (CAS) registry numbers. **Cross:** Antigens mentioned are primary sensitizers to which

the compound might crossreact. For further information visit

www.contactderm.org.

FW: Formula weight.

ICU: Immunologic Contact Urticaria.

INCI: International Nomenclature of Cosmetic Ingredients, names displayed in Capitals in accordance to EUR-Lex 2006/257/EG. All the haptens with INCI names are written

in capital letters throughout the catalogue.

NSAID: Non-steroidal anti-inflammatory drug **NICU**: Nonimmunologic contact urticaria.

PA: Compound that may cause photoallergic reactions.
PL: Compound that may cause persistent light reactions.
PT: Compound that may cause phototoxic reactions.
UCU: Uncertain mechanism type contact urticaria.



- ¹ Also present in European Baseline Series
- ² Emulsifier: SORBITAN SESQUIOLEATE 5%
- ³ Emulsifier: SORBITAN SESQUIOLEATE 1%
- ⁴ Emulsifier: SORBITAN SESQUIOLEATE 2%
- ⁵ Contains DECYL GLUCOSIDE
- ⁶ Divergent price, ask for quotation.
- ⁷ Present in national series. Visit www.chemotechnique.se for further information.
- EC Directive 2003/15/EC relating to cosmetic products

Hapten Information

Art. No. Formula FW Series



ABIETIC ACID

A-001 $C_{20}H_{30}O_2$ 302.44 O

Component in tall oil used as deodorizing agent in cooling fluids. Major component of rosin used in adhesive tapes, glues, inks, sealants, cosmetics, dental impression materials. **Cross: COLOPHONIUM, dihydroabietyl alcohol. CAS** 514-10-3.

ACETAMINOPHEN

A-032 C₈H₉NO₂ 151.16 CAD

Paracetamol or acetaminophen, is the active metabolite of phenacetin, a so-called coal tar analgesic. It is an effective substitute for acetylsalicylic acid, due to its analgesic(to relieve minor aches and pains) and antipyretic (to reduce fever) properties. However, unlike aspirin, it is not a very effective anti-inflammatory agent though it lacks many of the side effects of aspirin, and is available over-the-counter. Paracetamol is also useful in the management of more severe pain, where it allows lower dosages of additional non-steroidal anti-inflammatory drugs (NSAIDs) or opioid analgesics to be used, thereby minimizing overall side effects. It is a major ingredient in numerous cold and flu medications. **CAS** 103-90-2.

Acetylsalicylic acid

A-031 $C_9H_8O_4$ 180.16 CAD

Aspirin®, or acetylsalicylic acid, (acetosal) is a salicylate drug often used as an analgesic, antipyretic, and as an anti-inflammatory. It also has an antiplatelet ("blood-thinning") effect and is used long-term in low doses to prevent heart attacks and blood clot formation in people at high risk for developing blood clots. **CAS** 50-78-2.

Art. No. Formula FW Series

Achillea millefolium extract

A-025 PL

Perennial compositae weed with white flowers. Grows in most of Europe and in N. America, New Zealand and southern Australia. The raw material for this product is made from an ethanol extraction of the plant/flowers of Achillea Millefolium. Contains the sesquiterpene lactone -peroxyachifolide. Also known as Yarrow. Also available as part of Mx-29A and Mx-29B. **May cause airborne contact dermatitis.**

Acid Yellow 36

A-019 C₁₈H₁₄N₃NaO₃S 375.38 SH

Dye used in leather. As indicator (pH) in laboratories. CAS 587-98-4.

Acid Yellow 61

A-026 TF

Azo dye belonging to the acid dye class for coloring wool and polyamide textiles. **CAS** 12217-38-8

Acid Red 118

A-027 TF

Azo dye belonging to the acid dye class for coloring wool and polyamide textiles.

Acid Red 359

A-028 TF

Azo dye (chrome) belonging to the premetallic dye class for coloring wool and polyamide textiles. **CAS** 61814-65-1.

Acyclovir

A-033 $C_{g}H_{11}N_{5}O_{3}$ 225.21 CAD

Aciclovir, chemical name acycloguanosine, is a guanine analogue antiviral drug, marketed under trade names such as Zovirax and Zovir. One of the most commonly-used antiviral drugs, it is primarily used for the treatment of herpes simplex virus infections, as well as

Art. No. Formula FW Series

in the treatment of herpes zoster (shingles). CAS 59277-89-3.

Alantolactone

A-003

 $C_{15}H_{20}O_{2}$

232.31

S, ICB, IS, PL

Sesquiterpene lactone present in, e.g., species of Chrysanthemum plants (Helenin). Also available as part of Mx-18. **CAS** 546-43-0.

Alclometasone-17, 21-dipropionate

A-023

 $C_{28}H_{37}CIO_7$

520.71

CS

Topical non-fluorinated corticosteroid with low systemic effects. **CAS** 66734-13-2.

Aluminium

Deleted as of January 2017. Please refer to Aluminium(III)chloride hexahydrate (A-022) or ALUMINUM HYDROXIDE (A-038).

Aluminium(III)chloride hexahydrate

A-022

AICI₃ · 6H₂O

241.43

DS, MET

This hapten is a marker for contact allergy to **aluminum**. Used in preserving wood, disinfecting stables, etc., in deodorants and antiperspirant preparations. Used in refining crude oil, dyeing fabrics. Found in dental ceramics and topical astringents. **CAS** 7784-13-6

ALUMINUM HYDROXIDE

A-038

AI(OH)₃

78.0

MET

This hapten is a marker for contact allergy to **aluminum**. Most of this chemical is converted to aluminium oxide (alumina) that is used in the manufacture of aluminium metal. The chemical is also used as a fire retardant filler, producing water vapor and smoke suppressant for polymer applications. The gel form of the chemical is applied to make aluminium salts as flocculants in water purification.

The substance is also used as an antacid, to treat/control, or manage high levels of phosphate in the body. In addition it is also used with a low phosphate diet to prevent the formation of phosphate urinary stones. It can also be found in personal care products. Aluminum can in different forms be found in dental implants. **CAS** 21645-51-2

Art. No. Formula FW Series

Amerchol L-101

A-004 ICB, C, O, LU

Trade name of product containing lanolin alcohols obtained from hydrolysis of lanolin. Emulsifier and emollient in cosmetic and pharmaceutical bases, topical drugs, furniture polish, leather, metal corrosion prevention, paper, inks, textiles, furs, cutting oils, waxes. **UCU**.

Amidoamine

A-029 ICB

Amidoamines are a class of chemical compounds used as intermediates in the synthesis of surfactants, such as cocamidopropylbetaine (CAPB), some of which are used in personal care products including soaps, shampoos, and cosmetics. Amidoamines are amides formed from fatty acids and diamines. Studies have concluded that most apparent allergic reactions to products containing CAPB are more likely due to amidoamine.

4-Aminoazobenzene

A-005 $C_{12}H_{11}N_3$ 197.24 SH

Intermediate in the production of diazo dyes. Pigment in, e.g., plastic materials. Also known as Solvent yellow 1. **Cross: para group of compounds. CAS** 60-09-3.

4-AMINO-2-HYDROXYTOLUENE

A-039 H₂NC₈H₃(CH₃)OH 123.15 H

This substance is typically used in the formulation of hair dyes and colors. **CAS** 2835-95-2

m-AMINOPHENOL

A-008 C₆H₇NO 109.13 H

Used as a coupler for hair dyes. Found as dye intermediate. Used in the manufacturing of 4-amino salicylic acid. **Cross: para group of compounds. CAS** 591-27-5.

Art. No.	Formula	FW	Series
p-AMINOPHENOL			
A-009	C ₆ H ₇ NO	109.13	Н

Primary intermediate for hair dyes. Photographic developer. Dye for furs and feathers. **Cross: para group of compounds. CAS** 123-30-8.

Ammonium hexachloroiridate(IV)

A-034 H₈Cl₆lrN₂ 441.01 MET

This hapten is a marker for contact allergy to **iridium**. Ammonium hexachloroiridate (IV) is used in the production of photographic emulsions and in catalytic composites in the process of converting hydrocarbons. **CAS** 16940-92-4.

Ammonium hexachloroplatinate(IV)

A-010 CI₆H₈N₂Pt 443.88 MET

This hapten is a marker for contact allergy to **platinum**. Precious metal salt which is used in platinum plating. **ICU. CAS** 16919-58-7.

Ammonium molybdate (VI) tetrahydrate

A-035 $H_{24}Mo_7N_6O_{24}\cdot 4H_2O$ 1235.86 MET

This hapten is a marker for contact allergy to **molybdenum**. Ammonium Molybdate is an odourless crystalline compound ranging in colour from white to yellow-green. It is also called molybdic acid hexammonium salt tetrahydrate, ammonium molybdate tetrahydrate, and ammonium heptamolybdate tetrahydrate. Used as an analytical reagent to find the presence of phosphates, silicates, arsenates and lead in pigments. Used in the production of molybdenum metal and ceramics, in the fixing of metals and in electroplating, in fertilizers for crops and as a negative stain in biological electron microscopy. **CAS** 12054-85-2.

AMMONIUM PERSULFATE

A-011 $H_8N_2O_8S_2$ 228.20 B, H, P

Found in hair bleaches as oxidizer and bleacher. Used in decolorizing and deodorizing oils, electroplating, making starch soluble, yeast treatment. Used as reducer and retarder in photography. **May cause airborne contact dermatitis. UCU. CAS** 7727-54-0.

AMMONIUM THIOGLYCOLATE

A-012 C₂H₇NO₂S 109.15 H

Acts as reducing agent in permanent waving formulations for hair treatment. **CAS** 5421-46-5.

Ammonium tetrachloroplatinate(II)

A-013 CI,H₂N₂Pt 372.98 MET

This hapten is a marker for contact allergy to **platinum**. Precious metal salt which is used in photography. **ICU. CAS** 13820-41-2.

Amoxicillin trihydrate

A-030 C₁₆H₁₀N₃O₅S 365.40 CAD

Amoxicillin or amoxycillin is a moderate-spectrum β -lactam antibiotic used to treat bacterial infections caused by susceptible microorganisms. It is usually the drug of choice within the class because it is better absorbed, following oral administration, than other beta-lactam antibiotics. Amoxicillin is susceptible to degradation by β -lactamase-producing bacteria, and so may be given with clavulanic acid to decrease its susceptibility. Is currently marketed by GlaxoSmithKline (the inheritor company) under the original trade name Amoxil. **CAS** 26787-78-0.

AMYL CINNAMAL

A-014 $C_{14}H_{18}O$ 202.30 F

Raw material in the production of perfumes. Also known as Amylcinnamalaldehyde. Also available as part of Mx-07. **Cross: amylcinnamic alcohol. CAS** 122-40-7.

Amyl cinnamyl alcohol

A-036 $C_{14}H_{20}O$ 204.31 F

Amyl cinnamyl alcohol is one of many ingredients in fragrances. It is found in soaps, detergent, beauty care products and household products. **CAS** 101-85-9.

Amylocaine hydrochloride

A-020 C₁₄H₂₂CINO₂ 271.80 V

Used as a topical and local anesthetic agent. Also available as part of Mx-20. **Cross: Tetracaine. CAS** 532-59-2.

TRANS-ANETHOLE

A-015 C₄₀H₄₀O 148.21 B

Used as flavoring agent in food, dentifrices, pharmaceuticals etc. In perfumery for soap, etc. In photography and in embedding materials in microscopy. **CAS** 4180-23-8.

Anise alcohol

A-037 $C_8H_{10}O_2$ 138.16 F

Anise alcohol (2-Methoxybenzyl alcohol) is one of many ingredients in fragrances. It is found in soaps, detergents, beauty care products and household products. **CAS** 105-13-5.

Anthemis nobilis extract

C-029 PL

Compositae plant growing in most of Europe, in N.Africa, S.America, Australia and New Zealand. A yellow dye is extracted from the dried flowers and is sometimes used in shampoos, hair rinses and ointments. Anaphylactic reaction following ingestion of camomile tea has been reported. The raw material for this product is made from an ethanol extraction of the plant/flowers of Anthemis nobilis. May be referred to as Chamomilla Romana. Also available as part of Mx-29A and Mx-29B.

Arnica montana extract

A-024 PL

Compositae plant that grows on prairies and in mountainous lands in Europe, and Asia. Tincture of arnica is used in trauma treatment. The raw material for this product is made from an ethanol extraction of the plant/flowers of Arnica Montana. Major haptens appear to be helenalin and its esters. Also available as part of Mx-29A and Mx-29B. Cross: a number of other Asteraceae plants.

Art. No.	Formula	FW	Series
Atranorin			
A-016	C ₁₉ H ₁₈ O ₈	374.33	PL

One of the most common substances found in lichens. Component in extracts of oak moss used as fragrance. Also available as part of Mx- 16. Cross: oakmoss. PA. CAS 479-20-9

Azodiisobutyrodinitrile

A-018 C₈H₁₂N₄ 164.21 PG

Foaming agent and inhibitor in plastic and elastomer materials. **CAS** 78-67-1.



Bacitracin

B-032 C₆₆H₁₀₃N₁₇O₁₆S 1421.79 ME, LU

Antibiotic agent effective against gram-positive organisms and spirochetes. In products for topical treatment, ear medications, and ophthalmic drugs. Common hapten in leg ulcer treatment. **Cross:** polymyxin B sulfate, neomycin sulfate. ICU. CAS 1405-87-4.

Balsam Peru

Change of name as of January 2016; please refer to Peru balsam (Art. No. B-001).

Basic Red 46

B-026 TF

Monoazo dye used for acrylic and polyester textiles (sweaters, etc.).

Beech tar

B-002 V, LU

Used in tar paper, insulation tapes and topical medicaments. Also known as FAGUS SYLVATICA. Also available as part of Mx-14.

BENZALKONIUM CHLORIDE

B-027 C₁₇H₂OCIN 283.88 ICB. LU

Topical quaternary ammonium antiseptic agent found in ophthalmic (eye) preparations, skin disinfectants, cosmetics, deodorants, mouthwashes, dentifries, sterilization solutions, lozenges, and solutions for contact lenses. Cross: cetrimoniumbromide. benzethoniumchloride. May cause airborne contact dermatitis. CAS 63449-41-2

BENZISOTHIAZOLINONE

B-003 C,H,NOS 147.15 0

Preservative used in cooling fluids, paints, adhesives paper and in the textile industry. Also known as BIT. CAS 2634-33-5.

Benzocaine

C₀H₄₄NO₂ B-004 165.19 S, ICB, ME

Local and topical anesthetic used in products such as burn and sunburn remedies, hemorrhoidal creams, suppositories, creams for treatment of poison ivy, oral and gingival products, sore throat sprays/lozenges, astringents, appetite suppressants. Also known as Ethyl 4-aminobenzoate. Also available as part of Mx-19 and Mx-31. Cross: para group of compounds, butethamine, procainamide, hydrochlorothiazide, PABA and esters, azo/aniline dyes, PPD, sulfonamides, sulfonylureas, 4-aminosalicylic acid, parabens, PA. UCU. CAS 94-09-7.

BENZOIC ACID

C₂H₂O₂ 122.12 R B-005

Used in preserving foods, fats, fruit juices, etc (it and its salt is represented by E-numbers E210, E211, E212, and E213). Also used as an antifungal agent in pharmaceutical preparations and cosmetics, Cross; Peru balsam, ICU, CAS 65-85-0

BENZOPHENONE-3

ICB, C, DS, EP, C,,H,,O, 228.24 H-014 EPE, SU

Common UV-adsorber in dental composite materials and other plastic materials. Used as a UV-adsorber in topical sunscreens,

moisturizers, shampoos, hair care products, lipsticks, lip balms, nail polish, etc. Also known as 2-Hydroxy-4-methoxybenzophenone, Eusolex 4360, Escalol 567, Oxybenzone. **Cross: dioxybenzone. PA. CAS** 131-57-7.

BENZOPHENONE-4

H-023 C₁₄H₁₂O₆S 308.31 SU, EP, EPE

Sunscreen for use in various sunscreen products as well as in textiles, plastics, paints and cosmetics. Also known as 2-Hydroxy-4-methoxy-benzophenone-5-sulfonic acid, Sulisobenzone and Uvinul MS-40. **CAS** 4065-45-6.

BENZOPHENONE-10

H-020 $C_{15}H_{14}O_3$ 242.26 SU, EPE

UV absorbing agent in sunscreen cosmetics of the type creams, lotions, lipsticks, sun oils, etc. Also known as 2-Hydroxy-4-methoxy-4'-methylbenzophenone, Mexenone. Cross (photo): BENZOPHENONE-3. PA. CAS 1641-17-4

BENZOTRIAZOLE

B-006 $C_6H_5N_3$ 119.13 O, P

Anticorrosive agent in cooling fluids fuels, photographic development, antifreeze, dry cleaning, etc. Also known as 1H-Benzotriazole. **CAS** 95-14-7.

Benzoylperoxide

B-007 C₁₄H₁₀O₄ 242.23 ICB, B, PG, LU

Used as initiator in the polymerization of plastics, as oxidizer in bleaching oils, flour etc. Is a keratolytic agent in acne medications. May cause discoloration of the hair and postinflammatory pigmentation and hypopigmentation. May cause airborne contact dermatitis. UCU. CAS 94-36-0.

Benzydamine hydrochloride

B-041 C₁₀H₂₃N₃O · HCI 345.87 EP, EPE

Benzydamine hydrochloride is a NSAID, with local anesthetic and

analgesic properties for pain relief and anti-inflammatory treatment of inflammatory conditions of the mouth and throat. **CAS** 132-69-4

BENZYL ALCOHOL

B-008 C₇H₈O 108.13 ICB, C, F, P

Solvent in photography, perfumery and for dyestuffs, inks, pharmaceutical products, etc. Used as preservative in injectable drugs, ophthalmic solutions, and oral liquids. Cross: Peru balsam, benzoin tincture. May cause pigmentation of the face. ICU. CAS 100-51-6.

BENZYL BENZOATE

B-038 $C_{14}H_{12}O_2$ 212.24 F

Benzyl benzoate is the ester of BENZYL ALCOHOL and BENZOIC ACID. This easily prepared compound has a variety of uses. Benzyl benzoate, as a topical solution, may be used as an antiparasitic insecticide to kill lice and the mites responsible for the skin condition scabies. It has other uses such as a fixative in fragrances to improve the stability and other characteristics of the main ingredients; a food additive in artificial flavors; a plasticizer in cellulose and other polymers; a solvent for various chemical reactions; a treatment for sweet itch in horses. **CAS** 120-51-4.

BENZYL CINNAMATE

B-039 $C_{16}H_{14}O_2$ 238.29

Used as flavoring agent (sweet, floral, fruity) and as a perfumery fixer. **CAS** 103-41-3

BENZYL SALICYLATE

B-010 $C_{14}H_{12}O_3$ 228.26 ICB, C, F

Used as organic solvent for perfumes, also found in tanning creams and lotions. **May cause pigmentation of the face. CAS** 118-58-1.

Beryllium(II)sulfate tetrahydrate

B-044 BeSO₄ · 4H₂O 177.14 MET

This hapten is a marker for contact allergy to **beryllium**. Beryllium improves many physical properties when added as an alloying

element to aluminum, copper, iron and nickel. It can be found in tools and in the aerospace industry where it is used for aircraft components, missiles, spacecraft and satellites. It is a common window material for X-ray equipment and components of particle physics experiments. It is also used in thermal management applications. **CAS** 7787-56-6.

Betamethasone-17,21-dipropionate

B-042 $C_{28}H_{37}FO_7$ 504.59 CS

Betamethasone dipropionate is a glucocorticoid steroid with antiinflammatory and immunosuppressive abilities. It is applied as a topical cream, ointment, lotion, aerosol sprays or gel to treat itching and other minor skin conditions such as eczema. **CAS** 5593-20-4.

Betamethasone-17-valerate

B-031 $C_{27}H_{37}FO_6$ 476.26 CS

Topical and systemic corticosteroid of group C type with a C-16 methyl substitution. **CAS** 2152-44-5

BHT

D-006 C₁₅H₂₄O 220.36 B, C, PG, LU

Used as an antioxidant in foods (beverages, gum, ice cream, fruits, cereals), cosmetics, topical medications, animal feeds, petroleum products, jet fuels, rubber, plastics, paints, glues. Also known as Butyl hydroxy toluene and 2,6-Di-tert-butyl-4-cresol. **Cross: Lidocaine. UCU. CAS** 128-37-0

Bioban CS 1135

D-015 O

Trade name of a product that consists of two components: 4,4-Dimethyl-oxazolidine and 3,4,4-Trimethyl-oxazolidine. See the respective component for further information. **CAS** 75673-43-7

Bioban P 1487

E-014 O

Trade name of a product that consists of two components: 4-(2-Nitrobutyl) morpholine and 4,4-(2-Ethyl-2-nitro-trimethylene) dimorpholine. See the respective name for further information.

Art. No. Formula FW Series

Birch tar

B-011 V

Birch tari derived from the dry distillation of the bark of the birch tree. It is compounded of guaiacol, phenols, cresol, xylenol and creosol. Used as a component in pharmaceutical preparations. Also available as part of Mx-14.

BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENOL TRIAZINE

B-037

 $C_{38}H_{49}N_3O_5$

627.81

SU, EP, EPE

Used in sunscreens to absorb UV rays and is highly photostable. It is a broad spectrum UV absorber, absorbing UVB as well as UVA rays. Also known as Tinosorb S and Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine. **CAS** 187393-00-6

Bisphenol A dimethacrylate

M-007

 $C_{23}H_{24}O_4$

364.44

DS, MA

Methacrylic monomer based on bisphenol A. Used in dental restorative composite and adhesive materials. Also known as 2,2-bis(4-Methacryloxy)phenylpropane and BIS-MA. **CAS** 3253-39-2

Bisphenol A glycerolate dimethacrylate

H-013

C20H26O.

512.61

DS, MA, DMP, DMS

Common methacrylic monomer in dental composite restorative materials and dental sealants. This monomer is also extensively used in industrial applications. Also known as 2,2-bis(4-(2-Hydroxy-3-methacryloxypropoxy)phenyl)propane and BIS-GMA. **CAS** 1565-94-2.

Bisphenol A

B-013

C₁₅H₁₆O₂

228.29

PG

Comes from raw material in the production of epoxy and acrylic resins. Is a component in semisynthetic waxes. Also known as 4,4-Isopropylidene diphenol. Cross: diethylstilbestrol, hydroquinonemonobenzyl ether. CAS 80-05-7.

Art. No.	Formula	FW	Series
Bithionol			
B-014	$C_{12}H_6CI_4O_2S$	356.07	7

Used as antibacterial agent in soaps, cosmetics, agricultural fungisides, veterinaryantiseptic and antihelminthic products, industrial cleansers, etc. 2,2-Thiobis (4,6-dichlorophenol). **PA. PL. CAS** 97-18-7

BORNANEDIONE

C-026	$C_{10}H_{14}O_{2}$	166.22	DS

An initiator for visible light cured dental acrylic composite materials. Also known as Camphoroquinone and Camphorquinone. **CAS** 10373-78-1

2-BROMO-2-NITROPROPANE-1,3-DIOL

B-015 $C_3H_6BrNO_4$ 199.99 ICB, C, H, O

Used a preservative in cooling fluids, hand & face creams, shampoos, hair dressings, mascaras, cleansing lotions, milk sampling, paints, textiles, humidifiers, pharmaceutical products, washing detergents (Bronopol). **CAS** 52-51-7.

Budesonide			S, ICB, CS,
B-033	$C_{25}H_{34}O_{6}$	430.55	IS, LU

A nonhalogenated corticosteroid for use in topical preparations and for the treatment of rhinitis and asthma. Belongs to the group B (triamcinolone acetonide) type of corticosteroids. Good marker of corticosteroid allergy. Also available as part of Mx-23. Cross: Fluocinolone acetonide, Hydrocortisone, Hydrocortisone-17-butyrate, Prednisolone Acetate, Tixocortol-21-Pivalate, Triamcinolone acetonide. CAS 51333-22-3

Bufexamac

B-043 C₁₂H₁₇NO₃ 223.27 ME

Drug used as an anti-inflammatory agent on the skin, as well as rectally. Ointments and lotions containing bufexamac are used for the treatment of subacute and chronic eczema of the skin, including atopic eczema, as well as sunburn and other minor burns, and itching. Suppositories containing bufexamac in combination with local anaesthetics are used against haemorrhoids. **CAS** 2438-72-4.

Art. No. Formula FW Series

1,4-Butanediol diacrylate

B-016 C, H, O, 198.24 MP

A cross-linking monomer for use in inks, adhesives, textile product modifiers, photo resists, etc. Also known as BUDA. **CAS** 1070-70-8.

1,4-Butanediol diglycidyl ether

B-036 C₄₀H₄₉O₄ 202.25 E

A difunctional glycidylether of butyl alcohol; containing 2 epoxide groups (three-membered ring cyclic ethers that are also known as oxiranes or alkylene oxides). It is used as a general purpose diluent to reduce the viscosity of epoxy resins. Also used as rubber adhesive. Also known as Araldite RD-2; 1,4-Bis(2,3-epoxypropoxy) butane. **CAS** 2425-79-8.

1,4-Butanediol dimethacrylate MA, DS, DMP, B-017 $C_{12}H_{18}O_4$ 226.28 MA, DS, DMS

A cross-linking methacrylic monomer for use in dental composite materials, sealants, prostheses, etc. Also known as BUDMA. **CAS** 2082-81-7.

Butyl acrylate

B-018 $C_7H_{12}O_2$ 128.17 MN

A cross-linking acrylic monomer for use in textile and leather finishes, paint formulations, etc. Aslo known as BA. **CAS** 141-32-2.

4-tert-Butylbenzoic acid

B-019 $C_{11}H_{14}O_2$ 178.24 O

Used as corrosion inhibitor in cooling fluids. CAS 98-73-7.

4-tert-Butylcatechol

B-030 $C_{10}H_{14}O_2$ 166.22 PG

An antioxidant found in polyester resins and as polymerization inhibitor in PVC. Also described as hapten in photocopying paper and as antioxidant in oil. Also known as PTBC. **May cause depigmentation. CAS** 98-29-3.

t-BUTYL HYDROQUINONE

B-028 $C_{10}H_{14}O_2$ 166.22 C

Used as an antioxidant in cosmetic products like lipsticks. **CAS** 1948-33-0.

BUTYL METHACRYLATE

B-021 C_oH₁₄O₂ 142.20 MA, MN, MP

A cross-linking methacrylic monomer for use in dental composite materials, artificial nails, etc. Also known as BMA. **CAS** 97-88-1.

BUTYL METHOXYDIBENZOYLMETHANE

B-029 $C_{20}H_{22}O_3$ 310.20 SU, EP, EPE

A UV-A-ray adsorbing agent in sunscreen cosmetics of the type creams, lotions, lipsticks, sun oils, etc. (Parsol 1789). Also known as tert-Butyl-4'-methoxydibenzopylmethane. **CAS** 70356-09-1.

2-tert-Butyl-4-methoxyphenol

B-022 C₁₁H₁₆O₂ 180.25 ICB, B, C, PG

Used as an antioxidant in foods (beverages, gum, ice cream, fruits, cereals), cosmetics, topical medications, animal feeds, petroleum products, jet fuels, rubber, plastics, paints, glues. Also known as BHA. May cause depigmentation. May cause airborne contact dermatitis. UCU. CAS 121-00-6.

BUTYLPARABEN

B-020 $C_{11}H_{14}O_3$ 194.23 V

Used as preservative in foods (salad dressings, mayonnaise, spiced sauces, mustard, frozen dairy products, baked products), cosmetics and pharmaceutical preparations. Also known as Butyl-4-hydroxybenzoate. Also available as part of Mx-03A, Mx-03C. **CAS** 94-26-8.

4-tert-Butylphenol

B-023 C₁₀H₁₄O 150.21 PG

An intermediate in the production of lacquer and varnish resins.

Antioxidant in plastics, adhesives, etc. **May cause depigmentation. CAS** 98-54-4.

4-tert-Butylphenolformaldehyde resin

B-024 ICB, PG, S, SH, IS

Resin used in adhesives for shoes and watch straps. Also found in do-it-yourself glues, plywood, insulation, automobiles, motor oils, inks, papers, film developers, disinfectants, deodorants. Also known as PTBP. **May cause depigmentation.**

BUTYLPHENYL METHYLPROPIONAL

B-040 C₁₄H₂₀O

204.30

F

Common fragrance found in soaps, detergents, beauty care products and household products. It is also used as an intermediate for the synthesis of agrochemicals. Also known as Lilial and Lilialdehyde. **CAS** 80-54-6.



Cadmium chloride

C-001 CdCl₂ 183.32 MET

This hapten is a marker for contact allergy to **cadmium**. Used in photography, the production of cadmium yellow. Works as fungicide and anticorrosive agent. Also used in pigments for glass, tattoos, and paints. **CAS** 10108-64-2.

CALCIUM TITANATE

C-049 CaO₃Ti 135.96 MET

This hapten is a marker for contact allergy to **titanium**. Used in a method of manufacturing a ceramic capacitor suitable for high energy density and high temperature application. Uses are for example, as an antenna material, a capacitor material, a layered circuit substrate material, a connector material, and the like which are required to be dielectric. **CAS** 12049-50-2.

Camphoroquinone

Change of name as of January 2015; please refer to BORNANEDIONE (Art. No. C-026).

CANANGA ODORATA OIL

Change of name as of January 2016; please refer to Ylang ylang oil (Art. No. Y-001).

Cananga oil

C-002 F

This substance is used as a fragrance in household products and cosmetic products like washing detergents, skin lotion and perfumes. The oil is steam distilled from the flowers of Cananga odorota macrophylla. The oil has a warm, sweet floral scent with a hint of tree and leather. Contains among other substances beta-Caryophyllene, Geranyl acetate, Benzyl benzoate, Linalool, Methyl benzoate, Benzyl salicylate, Farnesol, Geraniol, Eugenol and Citral. Cross: benzyl salicylate. May cause pigmentation of the face. CAS 68606-83-7.

Captan

C-025 C₀H₂CI₂NO₂S 300.57 H

Used as a fungicide on vegetables, fruits, and different types of plants. Used as bacteriostat in soaps, shampoos, hair tonics, animalflea removers and tick sprays. Also known as N-trichloromethylthio-4-cyclohexene-1,2-dicarboximide, Vancide, Dangard and Merpan. **May cause airborne contact dermatitis. CAS** 133-06-2

Captopril

C-045 C₉H₁₅NO₃S 217.28 CAD

Captopril is an angiotensin-converting enzyme inhibitor (ACE inhibitor) used for the treatment of hypertension and some types of congestive heart failure. Captopril's main uses are based on its vasodilatation and inhibition of some renal function activities. **CAS** 62571-86-2.

Art. No.	Formula	FW	Series	
Carbamazepine				
C-044	$C_{15}H_{12}N_2O$	236.27	CAD	

Carbamazepine is an anticonvulsant and mood stabilizing drug, used primarily in the treatment of epilepsy and bipolar disorder. It is also used to treat ADD, ADHD, schizophrenia and trigeminal neuralgia. Also known as CBZ and 5H-dibenz[b,f]azepine-5-carboxamide. **CAS** 298-46-4.

CARVONE

C-035 $C_{10}H_{14}NO$ 150.10 DS, DMP

Found in several essential oils and is used for flavouring liqueurs, soaps, dental materials and perfumes. Also known as 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (5R)-(9Cl) and (R)- Carvone. **CAS** 6485-40-1

Cefalexin monohydrate

C-048 $C_{16}H_{17}N_3O_4S$ 365.40 CAD

First-generation cephalosporin antibiotic and it is an orally-administered agent with a similar antimicrobial spectrum to the intravenous agents cefalotin and cefazolin. It is used to treat urinary tract infections, respiratory tract infections (including sinusitis, otitis media, pharyngitis, tonsillitis and pneumonia), skin and soft tissue infections. Although it is not generally considered first-line therapy for any indication, it is a useful alternative to penicillins in patients with penicillin hypersensitivity. There is, however, cross-reactivity in 10% of patients with hypersensitivity to penicillins and carbapenems. **CAS** 23325-78-2.

Cefixime trihydrate

C-054 $C_{16}H_{15}N_5O_7S_2$ 507.50 CAD

This substance is a second-generation cephalosporin antibiotic. It is a broad spectrum cephalosporin antibiotic and is commonly used to treat bacterial infections of the ear, urinary tract and upper respiratory tract. **CAS** 125110-14-7.

Cefotaxim sodium salt

C-040 C₁₆H₁₆N₅NaO₇S₂ 477.04 CAD

A cephalosporin that belongs to a group of broad-spectrum antibiotic derived from species of fungi of the genus Cephalosporium and are related to the penicillins in both structure and mode of action but relatively penicillinase-resistant antibiotics. Third-generation cephalosporins are more active against gram-negative organisms but less active against gram-positive organisms than second-generation agents; examples are cefoperazone, cefotaxime, ceftriaxone, ceftazidime, ceftizoxime, and moxalactam. **CAS** 64485-93-4

Cefpodoxime proxetil

C-055 $C_{21}H_{27}N_5O_9S_2$ 557.60 CAD

This substance is an oral, third-generation cephalosporin antibiotic. It is active against most Gram-positive and Gram-negative organisms. It is commonly used to treat acute otitis media, pharyngitis, sinusitis, and gonorrhea. Veterinary uses is also found. **CAS** 87239-81-4.

Cefradine

C-047 $C_{16}H_{19}N_3O_4S$ 349.40 CAD

Cefradine or cephradine is a first generation cephalosporin antibiotic. Effective against a wide range of gram-positive and a limited range of gram-negative bacteria. **CAS** 38821-53-3.

Cefuroxime sodium

C-053 C₁₆H₁₅N₄NaO₈S 446.37 CAD

This substance is an enteral second-generation cephalosporin antibiotic. It is used to treat pneumonia and other lower respiratory tract (lung) infections; meningitis, gonorrhea, and skin, blood, bone, joint and urinary tract infections. Injections of the medicine may also be used before, during, and sometimes for a brief period after surgery. **CAS** 56238-63-2.

CETYL ALCOHOL

C-003 C₁₆H₃₄O 242.45 C

Used as emulsifier and emollient in cosmetics and pharmaceutical preparations. **UCU. CAS** 36653-82-4.

CETEARYL ALCOHOL

C-033

A combination of cetyl (C16) and stearyl (C18) alcohols 50/50 used as emulsifier and emollient in cosmetic lotions, creams, ointments and pharmaceutical preparations. Also known as Lanette O. **UCU. CAS** 67762-27-0

CETRIMONIUM BROMIDE

C-050 C₁₀H₄₂BrN 364.45 H

One of the components of the topical antiseptic cetrimide. The cetrimonium (or hexadecyltrimethylammmonium) cation is an effective antiseptic agent against bacteria and fungi. It is a cationic surfactant. Its uses include providing a buffer solution for the extraction of DNA. It is also widely used in hair conditioning products. Also known as Cetrimide. **CAS** 57-09-0.

Chamomilla recutita extract

C-051 PL

Chamomilla Recutita; Matricaria recutita or German chamomile, also spelled camomile, is an annual plant of the composite family Asteraceae. Chamomilla chamomilla, Chamomilla recutita (accepted name according to the Flora Europaea), Matricaria chamomilla, and Matricaria suaveolens. It usually grows near populated areas all over Europe and temperate Asia. It is widely introduced in temperate North America and Australia. As the seeds need open soil to survive, it often grows near roads, around landfills and in cultivated fields as a weed. The raw material for this product is made from an ethanol extraction of the plant/flowers of Chamomilla Recutita. Also available as part of Mx-29A and Mx-29B.

Chloramphenicol

C-032 $C_{11}H_{12}CI_2N_2O_5$ 323.14 ME, LU

An antibiotic substance produced by Streptomyces venezuelae. Present in eye drops, ointments and for systemic use. Used as bactericide against the rot of potatoes and other root vegetables. **Cross: Azidamfenicol. ICU. CAS** 56-75-7.

CHLORHEXIDINE DIACETATE

C-004 $C_{26}H_{38}CI_2N_{10}O_4$ 625.56 V

An antimicrobial agent used in cosmetic and disinfection solutions, eye drops, uterine antiseptics, toothpaste, mouthwash, hand and wound cleansers. **PA. ICU. CAS** 56-95-1

CHLORHEXIDINE DIGLUCONATE

C-005 C₂₄H₅₄Cl₂N₄₀O₄₄ 897.88 C, LU

An antimicrobial agent used in cosmetic and pharmaceutical creams, surgical soaps, anticaries solutions, toothpaste, mouthwash, hand and wound cleansers etc. **PA. ICU. CAS** 18472-51-0.

CHLOROACETAMIDE

C-006 C₂H₄CINO 93.51 C, H, O, LU

A preservative in cosmetic and pharmaceutical creams, shampoos, bath lotions, etc. Also as preservative in glues and cooling fluids. Also known as 2-Chloroacetamide. **May cause airborne contact dermatitis. CAS** 79-07-2.

p-CHLORO-m-CRESOL

C-008 C₂H₂CIO 142.59 C, H, O, LU

A fungicide found in creams, topical antiseptics, pharmaceutical products, protein shampoos, baby cosmetics, and cooling fluids. (PCMC). Also known as 4-Chloro-3-cresol. **Cross: 4-chloro-3-xylenol. ICU. CAS** 59-50-7.

CHLOROXYLENOL (PCMX)

C-010 C₈H₉CIO 156.61 C, H, O

A preservative found in cooling fluids, creams, topical and urinary antiseptics. Can also be found in pharmaceutical products, hair conditioners, toilet and deodorants, soaps, electrocardiogram paste, etc. Also known as 4-Chloro-3,5-xylenol. **Cross: 4-chloro-3-cresol. CAS** 88-04-0.

Art. No. Formula FW Series Chlorpromazine hydrochloride

C-011 C₁₇H₂₀Cl₂N₂S

dermatitis, PA, PT (systemic), CAS 69-09-0.

An antiemetic and antipsychotic agent found in pills, injections, and suppositories. Cross: diethazine HCI, promethazine HCI, thiazinamium, ethopropazine HCI. May cause airborne contact

355.35

FPF

Chlorquinaldol

C₁₀H₇Cl₂NO C-012 228 08 V

A fungicide and antibacterial agent found in topical pharmaceutical preparations. Also known as 5,7-dichloro-2-methyl-8-quinolinol and Sterosan, Also available as part of Mx-02, Cross: cliquinol, CAS 72-80-0.

Chrysanthemum Cinerariaefolium extract

C-031 ы

A compositae plant that grows on rocky ground in Europe, Australia, Japan and N.America. The raw material for this product is made from an ethanol extraction of the plant/flowers of Chrysanthemum Cinerariaefolium. Pvrethrum is the main source of the pvrethrum insecticide. Principal hapten is pyrethrosin. ICU.

CINNAMAL

C₀H₀O ICB, B, F C-014 132 16

A common ingredient in perfumes for household products like deodorizers, detergents, and soap. Flavor in toothpaste, sweets, ice cream, soft drinks, chewing gums, and cakes. Also present in Tolu balsam absolute and Peru balsam, hyacinth plant, spices, cinnamon, Cevlon and cassia oil. Also known as Cinnamic aldehyde. Also available as part of Mx-07, Mx-08. Cross: CINNAMYL ALCOHOL, cinnamon oil. May cause depigmentation. PA. NICU. CAS 104-55-2.

CINNAMYL ALCOHOL

C-013 134.18 B. F

A component found in perfumed cosmetic products and deodorants. Also known as Cinnamic alcohol. Also available as part of Mx-07,

Mx-08. Cross: Peru balsam, Propolis. May cause pigmentation of the face. CAS 104-54-1

Ciprofloxacin hydrochloride

C-043 C₁₇H₂₁CIFN₃O₄ 385.82 CAD

A quinolone, which is an antibiotic drug used mainly to treat the respiratory infections (pneumoniae, pseudomonas, influenzae), urinary tract infections, the gastrointestinal surgery, typhoid fever, gonorrhoea (enterotoxigenic strains of Escherichia coli), and septicaemia. Ciprofloxacin act by inhibiting the bacterial enzymes DNA gyrase. Other quinolones include cinoxacin; levofloxacin; nalidixic acid; norfloxacin; ofloxacin. CAS 86393-32-0

CITRAL

C-036 C₁₀H₁₆O 152.24 F

Fragrance for use in various perfumes. Examples of usage: in citrus notes and floral fragrance blends and as an intermediate to form other compounds. Also known as Geranial; Geranialdehyde; 3,7-Dimethyl-2,6-octadienal. Also available as part of Mx-25. **CAS** 5392-40-5.

CITRONELLOL

C-037 $C_{10}H_{20}O$ 156.27 F

A fragrance used in various perfumed products. Citronella oil is a yellowish essential oil distilled from the leaves of either of two grasses, Cymbopogon nardus or C. winterianus. This aromatic oil is inexpensive, and widely used in cheap perfumes and as a fragrance in soaps. It is also best known as an insect repellent. Citronellol, derived form citronella oil, is a chief constituent of geranium oil, another is GERANIOL. Both are used in the production of perfumes. (smells sweet, rose, lilac, geranium). Also known as 3,7-dimethyl-6-Octen-1-ol. Also available as part of Mx-25. **CAS** 106-22-9.

Clarithromycin

C-041 $C_{38}H_{69}NO_{13}$ 747.96 CAD

Clarithromycin, belonging to the macrolide group, has a close structural and biological similarity with erythromycin. It is effective against a broad spectrum of gram-positive and gram-negative bacteria. It is used to treat respiratory tract infections and soft

tissue infections. It is used to treat duodenal ulcer associated with Helicobacter pylori infections in combination with omeprazole. Also known as 6-0-methylerythromycin. **CAS** 81103-11-9

Clindamycin phosphate

C-046 C₁₈H₃₄CIN₂O₈PS 504.96 CAD

Clindamycin (phosphate) is a lincosamide antibiotic used in the treatment of infections caused by susceptible microorganisms. Such infections might include infections of the respiratory tract, septicemia and peritonitis. In patients with hypersensitivity to penicillins, clindamycin (phosphate) may be used to treat infections caused by susceptible aerobic bacteria as well. It is also used to treat bone infections caused by Staphylococcus aureus. Topical application of clindamycin phosphate can be used to treat moderate to severe acne. **CAS** 24729-96-2.

Clioquinol

C-015 C₀H₅CIINO 305.50 S, C

An antiinfective and antiamebic agent used in topical pharmaceutical preparations. Also known as 5-chloro-7-iodo-8-quinolinol, Chinoform and Vioform. Also available as part of Mx-02. **May cause brown discoloration of the nails and erythema multiforme like eruptions. UCU. CAS** 130-26-7.

Clobetasol-17-propionate

C-028 C₂₅H₃₂CIFO₅ 466.73 ICB, CS

A topical corticosteroid belonging to the group D (Hydrocortisone-17-butyrate) type of steroids. Cross: Alclometasone dipropionate, Betamethasone-17 Valerate, Clobetasol-17-propionate, Desoximetasone, Dexamethasone-21-Phospate. UCU. CAS 25122-46-7.

Coal tar

C-016 V

A by-product in the distillation of coal. Topical antieczematic agent. **PA. PT. PL. May cause postinflammatory hyperpigmentation. CAS** 8007-45-2.

Cobalt(II)chloride hexahydrate

C-017 CoCl₂·6H₂O 237.93 S, ICB, DS, H, DMP

This hapten is a marker for contact allergy to **cobalt**. A component used in coloring of glass and porcelain. Works as a siccative in paints. Used in various alloys (dental, etc.). **May produce erythema multiforme like eruptions. May cause airborne contact dermatitis. NICU. CAS** 7791-13-1.

COCAMIDE DEA

C-019 ICB, O

Mixture of ethanolamides of coconut acid. Found in bath, shower and body cosmetics and in cooling fluids. Also known as Coconut diethanolamide. **CAS** 68603-42-9.

COCAMIDOPROPYL BETAINE

C-018 C_4H_8NO ICB, C, H

A surfactant found in liquid soaps, shampoos, hair colorants, shower & bath formulations. Also known as Tegobetaine. **Cross:** cocobetaine. **CAS** 61789-40-0

S. ICB. DS.

COLOPHONIUM

C-020 SH, IS, DMP

A yellow resin used in the production of varnishes, printing inks, paper, soldering fluxes, cutting fluids, glue tackifiers, adhesives, surface coatings, polish, waxes, cosmetics (mascara, rouge, eye shadow), topical medicaments, violin bow rosin, athletic grip aid, pine oil cleansers. Component in dental impression materials and periodontal packings. (rosin). Also known as Colophony

Cross: Peru balsam, dihydroabietyl alcohol. wood tars. May cause airborne contact dermatitis. ICU. CAS 8050-09-7.

Copper(I)oxide

C-021 Cu₂O 143.08 MET

This hapten is a marker for contact allergy to **copper**. Used as fungicide and as pigment to make glass red. Found in antifouling paints Also known as Cuprous oxide. **CAS** 1317-39-1

Copper(II)sulfate pentahydrate

 $\text{C-022} \qquad \qquad \text{CuSO}_{4} \text{ . 5H}_{2} \text{O} \qquad \text{249.68} \qquad \quad \text{DS, MET}$

This hapten is a marker for contact allergy to **copper**. Works as a fungicide. Used as pigment in paints and reagent toner in photography. Copper metal is used in, e.g., dental alloys. Also known as Cupric sulfate. **ICU. CAS** 7758-99-8.

Costunolide

Mx-18 S, ICB, IS, PL

Sesquiterpene lactone isolated from the Compositae plant Saussurea lappa. The oil which is extracted from Saussurea lappa is used in perfumery and in the Orient for all kinds of diseases. Costunolide is present in the plant together with dehydrocostus lactone. May cause airborne contact dermatitis. Only available in mix (Mx-18). **CAS** 553-21-9.

Cotrimoxazole

C-042 $C_{14}H_{18}N_4O_3$. 543.19 CAD $C_{10}H_{11}N_3O_3$ S

Cotrimoxazole is an antibiotic combination of trimethoprim and sulfamethoxazole, in the ratio of 1 to 5, used in the treatment of a variety of bacterial infections. The name cotrimoxazole is the British Approved Name, and has been marketed worldwide under many trade names. Other sources list this antibiotic as bacteriostatic. **CAS** 8064-90-2

COUMARIN

C-038 C_oH_eO₂ 146.15 F

A fragrance used in various perfumed products. Coumarin (anhydride of o-coumaric acid) is white, crystalline lactone, obtainable naturally from several plants, such as tonka bean, lavender, sweet clover grass, strawberries, and cinnamon, or produced synthetically from an amino acid, phenylalanine. Coumarin has the characteristic odour like that of vanilla beans. It is used for the preparation of perfumes, soaps, flavourings. Also known as 2H-1-Benzopyran-2-one. Also available as part of Mx-25. **CAS** 91-64-5.

Art. No.

Formula

FW

Series

Cyclohexanone resin

C-027

PG

Formed by the condensation of cyclohexanone. Used to enhance the adhesive properties of products like alkyd-, nitro-, and chlorocaoutchouc lacquers. Most often used in floor paints. May cause airborne contact dermatitis.

N-Cyclohexyl-2-benzothiazolesulfenamide

C-023

C₁₃H₁₆N₂S₂

264.41

R

An accelerator in natural and styrene-butadienethiazyl sulfenamide rubber Also known as CBS. Also available as part of Mx-05A, Mx-05B. **CAS** 95-33-0

N-Cyclohexyl-N-phenyl-4-phenylenediamine

C-024

 $C_{18}H_{22}N_2$

266.42

R

Used as antidegradant in natural rubber, styrene-butadiene and chloroprene rubber. Also known as CPPD. Also available as part of Mx-04. **CAS** 101-87-1.

N-(Cyclohexylthio) phthalimide

C-034

C₁₄H₁₅NO₂S

261.34

R

A vulcanization retarder widely used in various rubber products. Brand name include Santogard PVI. **CAS** 17796-82-6.

CYSTEAMINE HCL

C-052

C₂H₇NS·HCI

113.61

Η

This substance is used in hair dye products. CAS 156-57-0

D

DECYL GLUCOSIDE

D-065

 $C_{16}H_{32}O_6$

320.43

ICB, C, EP, EPE

Decyl glucoside is a mild non-ionic surfactant used in cosmetic

formulations including baby shampoo and in products for individuals with a sensitive skin. Many natural personal care companies use this cleanser because it is plant-derived, biodegradable, and gentle for all hair types. Cross: Variety of Alkyl polyglucosides, for example Octylododecyl xyloside, Cetearyl Glucoside and Lauryl Glucoside. CAS 54549-25-6

Dehydrocostus lactone

Mx-18 S, ICB, IS, PL

Sesquiterpene lactone isolated from the Compositae plant Saussurea lappa. The oil which is extracted from Saussurea lappa is used in perfumery and in the Orient for all kinds of diseases. Dehydrocostus lactone is present in the plant together with costunolide. **May cause airborne contact dermatitis.** (Only available in mix).

Dermatophagoides Pteronyssinus/Pharinae

Mx-21 SA

House dust mite aerohapten causing atopic dermatitis. Mix of 2 species for "Atopic" patch testing. **May cause airborne contact dermatitis.**

Desoximetasone

D-057 $C_{22}H_{29}FO_4$ 376.46 ICB, CS

Like other topical corticosteroids, desoximetasone has antiinflammatory, antipruritic, and vasoconstrictive properties. Once absorbed through the skin, topical corticosteroids are handled through pharmacokinetic pathways similar to systemically administered corticosteroids. Cross: Alclometasone dipropionate, Betamethasone-17 Valerate, Clobetasol-17-propionate, Dexamethasone-21-Phospate. CAS 382-67-2

Dexamethasone-21-phosphate disodium salt

D-046 C₂₂H₂₈FNa₂O₈P 516.40 CS

Corticosteroid of the group C (betamethasone) type. Used in eye and ear preparations and in systemic preparations. **CAS** 2392-39-4.

Art. No.	Formula	FW	Series
Dexketoprofen			
D-067	C ₁₆ H ₁₅ O ₃	254.28	EPE

A NASID that is used to treat moderate pain, including dysmenorrhea. It acts by inhibiting the body's production of prostaglandin. Also know as (S)-(+)-Ketoprofen, (S)-(+)-3-Benzoyl-α-methylbenzeneacetic acid and (S)-2-(3-Benzoylphenyl)propionic acid. **CAS** 22161-81-5.

Diallyl disulfide

D-048 $C_6H_{10}S_2$ 146.28 PL

One of the three principal low molecular weight haptens of garlic. Allylpropyl disulfide and allicin are the other haptens in garlic. **CAS** 2179-57-9.

4,4'-Diaminodiphenylmethane (MDA)

D-001 $C_{13}H_{14}N_2$ 198.27 E, I, R

A curing agent for epoxy resins and urethane elastomers. Used as corrosion inhibitor and rubber additive (accelerator, antidegradant, retarder) in tires and heavy rubber products. Also used in adhesives and glues, laminates, paints and inks, PVC products, handbags, eyeglass frames, plastic jewelry, electric encapsulators, surface coatings, spandex clothing, hairnets, eyelash curlers, earphones, balls, shoe soles, face masks. Crossreacts with other p-amino substituted benzene compounds such as benzocaine and PABA. May produce erythema multiforme like eruptions. CAS 101-77-9.

DIAZOLIDINYL UREA

D-044 $C_8H_{14}N_4O_7$ 278.22 ICB, C, IS, H, LU

A preservative used in cosmetic creams, lotions, shampoos, hair gels, etc. (Germall II). Also known as 2,5-Diazolidinylurea. **Cross: IMIDAZOLIDINYL UREA, FORMALDEHYDE. CAS** 78491-02-8.

Dibenzothiazyl disulfide (MBTS)

D-003 $C_{14}H_8N_2S_4$ 332.50 R

An accelerator for natural rubber, nitrile-butadiene, butyl and styrene-butadiene rubber. Also used as retarder for chloroprene rubber. Also available as part of Mx-05A, Mx-05B. **CAS** 120-78-5.

Art. No. Formula FW Series

Dibucaine hydrochloride

D-005 C₂₀H₂₀CIN₂O₂ 379.92 ICB, V

Used as local anesthetic agent. Also known as Cinchocaine HCl, Nupercaine HCl, Percaine and Cincaine. Also available as part of Mx-12. Mx-13 and Mx19. Cross; Lidocaine. PA. CAS 61-12-1.

Dibutyl phthalate

D-007 $C_{16}H_{22}O_4$ 278.35 PG

Used as emollient in aerosol antiperspirants, insect repeller and as plasticizer in various plastic materials. **CAS** 84-74-2.

N,N'-Dibutylthiourea

D-038 (C₄H₉NH)₂CS 188.33 SH, R

An accelerator for mercaptan-modified chloroprene rubber. Used as activator for ethylene-propylene-diene terpolymers and natural rubber. An antidegradant for natural rubber-latex and thermoplastic styrene-butadiene rubber. Also available as part of Mx-24 and Mx-27. **CAS** 109-46-6.

DICHLOROPHENE

D-008 C₁₃H₁₀Cl₂O₂ 269.13 O

Used as bactericide, fungicide, and algicide in soaps, cosmetics, shampoos, dentifrices, toothpaste, mouthwashes, deodorants, foot powders, papers, adhesives and bandages, and cooling fluids. **Cross: hexachlorophene. CAS** 97-23-4.

Diclofenac sodium salt

D-061 C₁₄H₁₀Cl₂NNaO₂ 318.13 CAD, EPE

Diclofenac (marketed as Voltaren, Voltarol, Diclon, Dicloflex Difen, Difene, Cataflam, Pennsaid, Rhumalgan, Modifenac, Abitren, Arthrotec and Zolterol, with various drug dose combinations) is a NSAID taken to reduce inflammation and an analgesic reducing pain in conditions such as in arthritis or acute injury. It can also be used to reduce dysmenorrhea. The name is derived from its chemical name: 2-(2,6-dichloranilino) phenylacetic acid. **CAS** 15307-79-6.

Dicloxacillin sodium salt hydrate

D-058 C₁₉H₁₆Cl₂N₃ 510.32 CAD NaO₅S·H₂O

Dicloxacillin is a narrow spectrum β -lactam antibiotic of the penicillin class. It is used to treat infections caused by susceptible Grampositive bacteria. Notably, it is active against β -lactamase-producing organisms such as Staphylococcus aureus, which would otherwise be resistant to most penicillins. It is very similar to flucloxacillin and these two agents are considered interchangeable. Dicloxacillin is available under a variety of trade names. **CAS** 13412-64-1.

2-(4-Diethylamino-2-hydroxy-benzoyl)-benzoic acid hexylester

D-062 C₂₄H₃₁NO₄ 366.24 SU, EP, EPE

The UV-A sun filter 2-(4-Diethylamino-2-hydroxybenzoyl)-benzoic acid hexylester provides efficient protection in the long-wave UVA-I range with an absorption spectrum of up to 400 nm it provides high absorption specifically in the deep-acting wavelengths. Uvinul A+. Diethylamino Hydroxybenzoyl Hexyl Benzoate. **CAS** 302776-68-7.

Di(ethylene glycol) diacrylate

D-009 $C_{10}H_{14}O_5$ 214.21 MP

A cross-linking acrylate monomer for use in coatings, adhesives, and printing plates of prepolymer type. Also known as DEGDA. **CAS** 4074-88-8.

Diethylenetriamine

D-010 $C_4H_{13}N_3$ 103.17 E

Used as hardener for epoxy resins. Also known as DETA. Cross: ethylenediamine dihydrochloride. CAS 111-40-0.

DIETHYLHEXYL BUTAMIDO TRIAZONE

D-063 $C_{44}H_{59}N_{7}O_{5}$ 765.50 SU, EP, EPE

A sun filter for use in sunscreen products. Also known as Dioctyl butamido triazone and Uvasorb HEB. **CAS** 154702-15-5.

N,N-DIETHYL-p-PHENYLENEDIAMINE SULFATE

A-007 $C_{10}H_{16}N_2.H_2SO_4$

262.33

Used as color developer and high speed black and aniline sulfate white film developer in photography (TSS, Agfa). Also known as 4-Amino-N,N-diethyl-aniline sulfate. **May cause lichen planus. CAS** 6283-63-2

N,N'-Diethylthiourea

D-039

(C₂H₅NH)₂CS

132.25

R, SH

An accelerator for mercaptanmodified chloroprene rubber. Used as antidegradant for natural, nitrile-butadiene, styrene-butadiene, and chloroprene rubbers. Also available as part of Mx-24 and Mx-27. **CAS** 105-55-5.

N,N-DIETHYLTOLUENE-2,5-DIAMINE HCL

D-011

 $\mathsf{C_{11}H_{19}CIN_2}$

214.74

Ρ

A color developer for Eastman print and Gevacolor color development baths. Also known as N,N-Diethyl-2-methyl-1,4-phenylene-diamine-HCl and CD-2. **CAS** 2051-79-8.

Diltiazem hydrochloride

D-060

C₂₂H₂₆N₂O₄S·HCI

450.98

CAD

Diltiazem HCI is a member of the group of drugs known as benzothiazepines, which are a class of calcium channel blockers, used in the treatment of hypertension, angina pectoris, and some types of arrhythmia. It is a class 3 anti-anginal drug, and a class IV antidysrhythmic. It incites very minimal reflex sympathetic changes. **CAS** 33286-22-5.

DIMETHYLAMINOETHYL METHACRYLATE

D-045

C₈H₁₅NO₂

157.21

DS, MA, DMP

Used as amine activator in visible light-cured dental acrylic composite materials. Also known as N,N-Dimethylaminoethyl methacrylate. **CAS** 2867-47-2.

3-(Dimethylamino)-1-propylamine

D-053 C₅H₁₄N₂ 102.18 C, E

This is an intermediate substance in the synthesis of alkylamidopropyldimethylamines/alkylamidobetaines and found as an impurity in cosmetic surfactants present in e.g. shampoos. 3-(Dimethylamino)propylamine is also used as a hardener of epoxy resins, as an additive in fuel, dyes, pesticides and binding agents. It is also used in the production of ion-exchangers. Also known as DMPA. **CAS** 109-55-7.

Dimethyl dihydroxy ethylene urea

D-052 TF

A non-Formaldehyde type of textile resin for "wash and wear" colored and white fabrics and shirtings, draperies and sheeting. Chlorine resistant. (Fixapret NF).

Dimethyl fumarate

D-066 C_eH_eO₄ 144.12 \

This compound is used as an antifungal substance in products such as sofas, helmets, clothes etc. It is packed normally in pads where the substance sublimates and might penetrate leather etc. **CAS** 624-49-7

Dimethylol dihydroxy ethylene urea

D-012 $C_5H_{10}N_2O_5$ 178.14 TF

A formaldehyde type of textile resin (Fixapret CPN, 74% active component). Also available as part of Mx-16.

Dimethylol dihydroxy ethylene urea, modified

A low-Formaldehyde type of textile resin for "wash and wear" colored and white fabrics and shirtings, Viscose and mixtures with synthetic materials. (Fixapret ECO).

4,4-Dimethyl-oxazolidine

Comp. in D-015 $C_5H_{11}NO$ 101.15 O

Used as a preservative for latex paints, emulsions and for cooling fluids (component in Bioban CS 1135 by 74.7%). D-015: **Bioban CS 1135** also contains 3,4,4-Trimethyloxazolidine. Neither of the substances can be ordered separately. Also known as DIMETHYL OXAZOLIDINE. **CAS** 51200-87-4

N,N-Dimethyl-4-toluidine

D-016 C₉H₁₃N 135.21 DS

An amine accelerator for the polymerization of e.g. dental methacrylic restorative materials. **CAS** 99-97-8.

N,N-Di-2-naphtyl-4-phenylenediamine

D-017 $C_{26}H_{20}N_2$ 360.46 F

An antidegradant for latex, nitrile rubber, styrene-butadiene, and nitrile-butadiene rubber Also known as DBNPD. Also available in Mx-11. **CAS** 93-46-9.

Dioctyl phtalate

D-018 $C_{24}H_{38}O_4$ 390.57 PG

Used as plasticizer in various plastic materials. Also known as Diethylhexyl phthalate, DEHP and DOP. **CAS** 117-81-7.

Dipentamethylenethiuram disulfide

D-019 $(C_5H_{10}NCS_2)_2$ 320.60 S, IS, R

Used as accelerator and vulcanizing agent for latex (gloves) and butyl rubber. Also known as PTD. Also available as part of Mx-01. **CAS** 94-37-1.

Diphenhydramine hydrochloride

D-021 C₁₇H₂₂CINO 291.82 V

An antihistaminic drug.which blocks the effect of histamine at H1 receptor sites, which results in an increase in vascular smooth muscle contraction. It has also been shown to have inhibitive tumor promotion properties. **PA. CAS** 147-24-0.

Art. No.	Formula	FW	Series
1,3-Dipheny	lguanidine		
D-022	$C_{13}H_{13}N_3$	211.27	ICB, R, SH

A medium accelerator for use with thiazoles and sulfenamides in various rubber products. Also available as part of Mx-06. **CAS** 102-06-7.

Diphenylmethane-4,4'-diisocyanate

D-023 $C_{15}H_{10}N_2O_2$ 250.26

A diisocyanate in the production of polyurethane lacquers, foam plastics, rubber, and glues. Also known as MDI. **CAS** 101-68-8.

N,N'-Diphenyl-p-phenylenediamine

D-024 $C_{18}H_{16}N_2$ 260.34 R

Used as antidegradant for nitrile-butadiene rubber, natural, styrene-butadiene, isoprene, butadiene, and chloroprene rubbers. Also known as DPPD. Also available as part of Mx-04. **CAS** 74-31-7.

N,N'-Diphenylthiourea

D-025 $C_{13}H_{12}N_2S$ 228.32 PG, R, SH

An accelerator and activator for neoprene rubber and ethylene-propylene-diene terpolymers used for rubber products such as wet suits, goggles, knee brace and gloves. In sulfur dyes and as heat stabilizer in PVC adhesive tape backing. Also known as Thiocarbanilide and DPTU. Also available as part of Mx-27. **CAS** 102-08-9.

Direct Orange 34

D-051 TF

An azo dye (stilbene) belonging to the direct dye class for coloring cellulosic textiles.

Disodium phenyl dibenzimidazole tetrasulfonate

D-064 C₂₀H₁₂N₄ Na₂O₁₂S₄ 674.59 SU, EPE

A sun filter used in sunscreen products. Also known as: Neo Heliopan AP, Bisimidazylate and 2,2'-(1,4-Phenylene)bis-(1-H-benzimidazole-4,6-disulfonic acid, monosodium salt). **CAS** 180898-37-7.

Art. No.	Formula	FW	Series	
DISPERSE BLUE 3				
D-026	$C_{17}H_{16}N_2O_3$	296.33	TF	

A textile dye of antraquinone type. Used as dye for nylon, acrylic, polyester and acetate. Also used as stocking dye. **CAS** 2475-46-9.

Disperse Blue 35

D-027 296.27 TF

Textile dye of antraquinone type. Dye in nylon, acrylic, polyester, and acetate. Also available as part of Mx-30. **PT. CAS** 12222-75-2.

Disperse Blue 85

D-028 TF

A textile dye of azo type.

Disperse Blue 106

D-040 TF

A monoazo dye used for secondary cellulose fabrics (polyester blouses, garment linings, etc.) Also available as part of Mx-26 and Mx-30. **CAS** 68516-81-4.

Disperse Blue 124

D-041 $C_{15}H_{21}N_5O_4S$ 367.47 TF

Am azo dye used for secondary cellulose acetate fabrics (stockings, garment linings, etc.). Also available as part of Mx-26 and Mx-30. **CAS** 61951-51-7.

Disperse Blue 153

D-029 TF

A textile dye of antraquinone type.

Disperse Brown 1

D-030 $C_{16}H_{15}CI_3N_4O_4$ 433.68 TF

A textile dye of azo type.

Art. No.	Formula	FW	Series	
Disperse Orange 1				
D-031	$C_{18}H_{14}N_4O_2$	318.34	TF	

A textile dye of azo type. Dye in terylene. Also available as part of Mx-30. **CAS** 2581-69-3.

DISPERSE ORANGE 3

D-032 C₁₂H₁₀N₄O₂ 242.24 ICB, SH, TF

A textile dye of azo type. Also available as part of Mx-30. CAS 730-40-5.

Disperse Red 1

D-034 $C_{16}H_{18}N_4O_3$ 314.35 TF

A textile dye of azo type. Used to dye nylon and polyester. Also used as stocking dye. Also available as part of Mx-30. **CAS** 2872-52-8.

DISPERSE RED 17

D-035 $C_{17}H_{20}N_4O_4$ 344.37 TF

A textile dye of azo type. Used to dye acetate, silk, wool, and cotton. Also used as stocking dye. Also available as part of Mx-30. **CAS** 3179-89-3.

Disperse Yellow 3

D-036 C₁₅H₁₅N₃O₂ 269.31 ICB, TF

A textile dye of azo type. Used to dye acetate and nylon. Also used as stocking dye. Also available as part of Mx-30. **CAS** 2832-40-8.

Disperse Yellow 9

D-037 $C_{12}H_{10}N_4O_4$ 274.24 TF

A textile dye of nitro type. Used to dye in terylene. CAS 6373-73-5.

4,4'-Dithiodimorpholine

D-054 $C_8H_{16}N_2O_2S_2$ 236.35 SH

A vulcanizing agent and promoter of natural and synthetic rubber, it can release the sulphur in the vulcanizing temperature. It can be used in the butyl rubber to produce tyre, butyl inner tube of tire, rubber belt

and anti-heat rubber products, it also can be used as pitch stabilizer in the expressway. Also known as DTDM. **CAS** 103-34-4.

DMDM HYDANTOIN

 $C_7 H_{12} N_2 O_4$ 188.07 ICB, C

Functions as a formaldehyde donor and is used as a preservative in cosmetic products and is active against fungi, yeasts, and bacteria. Products preserved are of the type shampoos, skin-care products, hair conditioners, makeup, hair rinses, and cleanliness products. Also used in herbicides, polymers, color photography, latex paints, floor waxes, cutting oils, adhesives, copying paper, inks. **CAS** 6440-58-0.

DODECYL GALLATE

D-042 $C_{19}H_{30}O_5$ 338.45 B, C

An antioxidant in cosmetic and pharmaceutical creams and emulsions, various fats, oils, waxes, and foods such as margarine. Also known as Lauryl gallate. Also available as part of Mx-28. **CAS** 1166-52-5.

Dodecyl mercaptan

D-043 C₁₂H₂₆S 202.41 R, SH

A polymerization inhibitor added to polyurethane resins and Neoprene glues for use, e.g., in the shoe industry. **CAS** 112-55-0.

Doxycycline monohydrate

D-059 C₂₂H₂₄N₂O₈·H₂O 462.45 CAD

A semisynthetic broad-spectrum antibiotic or antibacterial which belongs to the tetracycline family. It is used to treat urinary tract infections, gum disease, and bacterial infections such as gonorrhea, chlamydia and Bacillus anthracis. It is also used to treat acne. **CAS** 17086-28-1.

DROMETRIZOLE

H-016 C₁₃H₁₁N₃O 225.25 C, DS, PG, DMP

An UV-adsorber used in plastics, cosmetics, dental materials, acrylic materials, dyes, etc. Also known as 2(2-Hydroxy-5-methylphenyl) benzotriazol, Tinuvin P. **CAS** 2440-22-4.

DROMETRIZOLE TRISILOXANE

D-055 $C_{24}H_{30}N_3O_3Si_3$ 562.70 SU, EP, EPE

An UV-B adsorbing agent in sunscreen cosmetics of the type creams, lotions, lipsticks, sun oils, etc. Trade name is Silatrizole & Mexoryl XL. Also known as 2-(2H-Benzotriazole-2-yl)-4-methyl-6-[2-methyl-3-[1,3,3'-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl]phenol. **CAS** 155633-54-8.



Econazole nitrate

E-021 C₁₈H₁₆CIN₃O₄ 373.65 ME

An antifungal agent of the imidazole type used in topical and vaginal preparations to prevent growth of dermatophytes, yeast, and mold. Cross: miconazole, nilconazole. May produce erythema multiforme like eruptions. CAS 24169-02-6.

Eosin

E-022 $C_{20}H_8Br_4O_5$ 647.90 LU

Red dye belonging to the xanthene group. Used as coloring agent in nail polish, wool, silk, and paper. It is now approved by the FDA for use in inks, drugs, and cosmetics except for eye cosmetics, and as topical low concentrated antiseptics. Also known as 2'.4'.5'.7'-Tetrabromofluorescein. **CAS** 15086-94-9.

Epoxy acrylate

E-001 MP

An acrylate oligomer for use in UV-reactive inks and varnishes.

Epoxy resin, Bisphenol A S, ICB, SH, IS, E-002 DMP

A resin, based on epichlorhydrin and bisphenol A, used in adhesives, surface coatings, electrical insulation, plasticizers, polymer stabilizers, laminates, surface coatings, paints and inks, product finishers, PVC products, vinyl gloves, etc. Also found in the

building industry, electron microscopy, and sculptures. Oligomers may vary in molecular weight from 340 and higher. The higher the molecular weight, the less sensitizing the compound. May produce erythema multiforme like eruptions. May cause airborne contact dermatitis. UCU.

Epoxy resin, Bisphenol F

B-035

A resin, based on Epichlorhydrin and Bisphenol F, used in adhesives, casting and tooling, epoxy coatings, coil coatings, marine and protective coatings, potting and encapsulation. Typical uses include compositions for the building and civil engineering industries, e.g. flooring compounds, adhesives, mortars and grouts. Often used in combination with Bisphenol A liquid epoxy resin. Also known as EPIKOTE Resin 862. **CAS** 28064-14-4.

Epoxy resin, cycloaliphatic

E-020 E

A resin based on diglycidyl ester of hexahydrophthalic acid. Its main use is for the manufacture of electrical insulating components (bushings, apparatus parts, insulators).

Erythromycin base

E-024 C₃₇H₆₇NO₁₃ 733.94 CAD

A macrolide antibiotic that has an antimicrobial spectrum similar to or slightly wider than that of penicillin, and is often used for people that have an allergy to penicillins. For respiratory tract infections, it has better coverage of atypical organisms, including mycoplasma and Legionellosis. It is also used to treat outbreaks of chlamydia, syphilis, acne, and gonorrhea. Erythromycin is produced from a strain of the actinomycete Saccharopolyspora erythraea, formerly known as Streptomyces erythraeus. **CAS** 114-07-8.

Etofenamate

E-025 C₁₈H₁₈F₃NO₄ 369.33 EP, EPE

A NASID used for the treatment of joint and muscular pain. It acts by inhibiting the body's production of prostaglandin. **CAS** 30544-47-9.

7-ETHYLBICYCLOOXAZOLIDINE

A-017 C₇H₁₃NO₂ 143.18 O

A preservative in cooling fluids. Trade name, Bioban CS 1246. **CAS** 7747-35-5.

Ethyl acrylate

E-004 C_sH₈O₂ 100.12 ICB, MN, MP

An acrylic monomer used in the production of textile and paper coatings, leather finish resins, and adhesives. Also known as EA. **CAS** 140-88-5.

ETHYL CYANOACRYLATE

E-023 C₆H₇NO₂ 125.10 MA

A acrylate compound used in instant glues to mend broken nails and to adhere glue-impregnated silk or linen to the nail plate, which is then filed to shape the nail. Instant glues are also used in medicine to glue tissues and skin cracks. The glue is also used to attach hair and to glue shoes, plastics, and many other materials. Also known as Rite-Lok, Super Glue, Krazy Glue. **May cause airborne contact dermatitis. CAS** 7085-85-0.

Ethylenediamine dihydrochloride

E-005 $C_2H_{10}CI_2N_2$ 133.02 ICB, C, E, P, O

A stabilizer in steroid creams and rubber latex. Used as inhibitor in antifreeze solutions and cooling fluids and an epoxy curing agent. May also be present in floor-polish removers. Found as component in nystatin cream and aminophylline. Used as accelerator in color development baths in photography. Used also in veterinary preparations, electroplating and electrophoretic gels, dyes, fungicides, insecticides, synthetic waxes, textile lubricants, eye and nose drops, and as solvent for casein, albumin, shellac. Also known as EDA. Cross: EDTA, antazoline, aminophylline, promethazine HCI, piperazine. May produce erythema multiforme like eruptions. UCU. CAS 333-18-6

Ethylenediamine tetraacetic acid disodiumsalt dihydrate

F-006

C₁₀H₁₄N₂ Na₂O₈ 2H₂O

372.24

Used as a chelating agent for metals and as pharmaceutic aid (chelating agent). Also used as preservative in cosmetic products and anticoagulant, CAS 6381-92-6.

Ethylene glycol dimethacrylate F-007 C..H..O. 198.22

C, H, O,

DS, MA, MN, MP. DMP. DMS

A cross-linking methacrylic monomer in dental composites, sealants, prostheses, adhesives, artificial nails, printing inks, etc. Also known as EGDMA. May cause airborne contact dermatitis. CAS 97-90-5.

Ethylene urea

E-008

C₀H₀N₀O

86.10

A finishing agent for textiles and leather. Also used to formulate lacquers, plasticizers and adhesives. Can also be used as an insecticide. CAS 120-93-4.

2-Ethylhexyl acrylate

F-009

C₁₁H₂₀O₂

184.28

MP

An acrylic monomer for use in UV-curable coatings and inks. Ingredient in some acrylic-based adhesive tapes. Also known as EHA. CAS 103-11-7.

ETHYLHEXYL DIMETHYL PABA

F-018

C₁₇H₂₇NO₂

277.41

SU

An UV-B absorbing agent in sunscreens and cosmetic creams, lotions, lipsticks, sun oils, moisturizers, nail polish, etc. Also known as Eusolex 6007, Escalol 507, Octyldimethyl-PABA and 2-Ethylhexyl-4dimethylaminobenzoate. CAS 21245-02-3.

ETHYLHEXYL METHOXYCINNAMATE

E-019 C₁₈H₂₆O₃ 290.18 SU, EP, EPE

An UV-B absorbing agent in sunscreens and cosmetic creams, lotions, lipsticks, sun oils, etc. Also known as Parsol MCX and Escalol 557. **CAS** 5466-77-3.

ETHYLHEXYL SALICYLATE

O-007 C₁₅H₂₂O₂ 250.34 ICB, SU, EPE

An UV-B adsorbing agent in sunscreen cosmetics of the type creams, lotions, lipsticks, sun oils, etc. Also known as Octyl salicylate, 2-Ethylhexyl salicylat and trade name is Escalol 587. **CAS** 118-60-5.

ETHYLHEXYL TRIAZONE

O-010 SU, EP, EPE

An UV-B adsorbing agent in sunscreen cosmetics of the type creams, lotions, lipsticks, sun oils, etc. Also known as 2,4,6-trianilino-p-(carbo-2-ethylhexyl-1-oxi)-1,3,5-triazine. Trade name is Uvinyl T 150. **CAS** 88122-99-0.

ETHYLHEXYLGLYCERIN

E-027 $C_{11}H_{24}O_3$ 204.3 C

This substance is a topical skincare ingredient and deodorizing agent, often indicated as a conditioning ointment in the treatment of eczema. It can services as a surfactant and preservative-enhancer and can be found as a substituent for parabens. The chemical is a synthetic compound derived from vegetable glycerin. **CAS** 70445-33-9.

ETHYLPARABEN

E-010 $C_0H_{10}O_3$ 166.17

A preservative used in foods (salad dressings, mayonnaise, spiced sauces, mustard, frozen dairy products, baked products), cosmetics, and pharmaceutical preparations. Also known as Ethyl-4-hydroxybenzoate. Also available as part of Mx-03A, Mx-03C. **CAS** 120-47-8.

N-Ethyl-N-(2-hydroxyethyl)-2-methyl-1,4phenylene-diamine sulfate salt

E-011

 $C_{11}H_{20}N_2O_5SH_2O$ 310.37

Ρ

A color developer for Kodacolor II film identical to Flexicolor or C-41 process Also known as CD-4. **CAS** 25646-77-9.

ETHYL METHACRYLATE

E-012

C₆H₁₀O₂

114.15

MN, MP

A methacrylic monomer for use in, e.g., artificial nail products, dentures, hearing aids, printing plates, and bone cement. Also known as Ethyl methacrylate and EMA. **CAS** 97-63-2.

N-Ethyl-N-(2-methane-sulfonamidoethyl)-2-methyl-1,4-PPD-sesquisulfate, hydrate, (CD-3)

E-013

 $C_{12}H_{21}N_3$ $O_2S_1,5H_2SO_4$

418.5

A colour developer for Eastman color negativ film and Ektachrome reversal film. Also known as CD-3. **CAS** 25646-71-3.

4,4-(2-Ethyl-2-nitro-trimethylene)dimorpholine

Comp. in E-014 $C_{13}H_{25}N_3O_4$

287.36

0

A preservative used in cooling fluids, crude oil, diesel fuel, heating oil, etc. 4,4-(2-Ethyl-2-nitro-trimethylene)dimorpholine is present in Bioban P 1487 (trade name) by 20 %. Bioban P 1487 also contains 4-(2-Nitrobutyl) morpholine. Neither of the substances can be ordered separately. **CAS** 37304-88-4.

N-Ethyl-p-toluenesulfonamide

E-015

C₀H₁₀NO₂S

199.27

DS, DMP

A resin carrier found in dental materials used for isolating cavities below restorations. Plasticizer in PVA lacquers, polyamides, cellulose acetate etc. **CAS** 80-39-7.

Art. No.	Formula	FW	Series
EUGENOL E-016	C ₁₀ H ₁₂ O ₂	164.21	B, DS, F, DMP, DMS

Used as fragrance in perfumery as substitute for oil of Cloves. Dental analgesic in impression materials and periodontal packings. Used in the production of Vanillin. Also used as insect attractant. Also available as part of Mx-07, Mx-08. **May elicit contact urticaria. Cross: Peru balsam, isoeugenol, benzoin, propanidid. CAS** 97-53-0.

Evernia furfuracea

Change of name as of January 2016; please refer to Treemoss absolute (Art. No. E-026).

Evernic acid

E-017 $C_{17}H_{16}O_{7}$ 332.32 PL

An acid present in different lichens. One of the three most common lichen haptens. Also available as part of Mx-16. **Cross: oak moss. PA. CAS** 537-09-7.



FARNESOL

F-004 $C_{15}H_{26}O$ 222.37 F

A fragrance used in various perfumed products. FARNESOL is a nature identical ingredient originally found in orange blossoms, rose, jasmin or linden flowers. It inhibits the bacterial activity responsible for unpleasant odors, acne and the athlete's foot, while at the same time not affecting the natural skin flora. Also used as a pesticide. Also known as 3,7,11-trimethyl-2,6,10-dodecatrien-1-ol. Also available as part of Mx-25. **CAS** 4602-84-0.

Fenofibrate

F-006 $C_{20}H_{21}CIO_4$ 360.83 EPE

A drug of the fibrate class, mainly used to reduce cholesterol levels in patients at risk of cardiovascular disease. Like other fibrates, it reduces both low-density lipoprotein (LDL) and very low density

lipoprotein (VLDL) levels, as well as increasing high-density lipoprotein (HDL) levels and reducing triglycerides level. CAS 49562-28-9.

FERRIC CHLORIDE

ClaFe I-016 162 2 MFT

This hapten is a marker for contact allergy to iron. Also generally known as Iron(III)chloride, is an industrial scale commodity chemical compound. In industrial application used in sewage treatment and drinking water production. It is necessary for the etching of photogravure plates for printing photographic and fine art images in intaglio and for etching rotogravure cylinders used in the printing industry. Also used in veterinary practice. CAS 7705-08-0.

FO	RMA	LDE	HYDE

S, ICB, DS, H, F-002 CH₂O 30.03 O, SH, IS

Used in the production of urea, phenolic melamine and acetale resins. Found in textile products. Used as astringent, disinfectant, preservative in cosmetics, metalworking fluids, shampoos, etc. Other exposure areas include antiperspirant in cosmetics, anticracking agent in dental plastics, anhidrotics, chipboard production, cleaning products, disinfectants and deodorizers, dry-cleaning materials, glues, mineral wool production, paints and coatings, paper industry, phenolic resins and urea plastics in adhesives and footwear, photographic paper and solutions, polishes, printing materials, tanning agents, wart remedies, embalming solutions, fertilizers, wood composites, insulation. Formaldehyde releasers: Bakzid P, Biocide DS 5249, Bronopol, Dantoin MDMH, DMDM HYDANTOIN, Dowicil 200, Germall 115, Germall II, Grotan BK, Hexamethylenetetramine, KM 103, Paraformaldehyde, Parmetol K50, Polyoxymethylene urea, Preventol D1, -D2, -D3. Cross: aryl-sulfonamide resin, chloroallylhexaminium chloride. May produce erythema multiforme like eruptions. PA. PT. May cause airborne contact dermatitis. NICU. CAS 50-00-0.

Framycetin sulphate

 $C_{23}H_{46}N_6O_{13}H_2SO_4712.72$ F-005 LU, ME

A broad spectrum aminoglycoside antibiotic, is usually bactericidal in action. For local use in the treatment of infections caused by pyogenic organisms, in particular S. aureus, the proteus group of Formula

FW

Series

bacteria, coliforms and P. aeruginosa. Cross sensitization may occur among the group of Streptomyces derived antibiotics (neomycin, paromomycin, kanamycin) of which framycetin is a member, but this is not invariable. Also known as Neomycin B, Framycetin, Soframycin. ICU. **CAS** 4146-30-9.

Fusidic acid sodium salt

F-003

 $C_{31}H_{47}NaO_6$

538.70

ICB, ME, LU

An antibiotic agent used in the treatment or prevention of cutaneous infections, mainly Staphylococcus aureus. Contact dermatitis often associated with treatment of leg ulcers or atopic dermatitis. **CAS** 751-94-0.



Gallium(III)oxide

G-007

 Ga_2O_3

187.44

MET

This hapten is a marker for contact allergy to **gallium**. This is a chemical compound used as part of the manufacturing of semiconductor devices. It might also be found in dental implants. **CAS** 12024-21-4.

Gentamicin sulfate

G-006

 $\begin{array}{c} \mathsf{C_{_{19\text{-}21}}H_{_{39\text{-}43}}} \\ \mathsf{N_{_{5}O_{_{7}}2.5H_{_{2}}SO_{_{4}}} \end{array}$

ME

A topical and systemic broad-spectrum antibiotic with bactericidal action. Also used in ophthalmic drugs. **Cross: neomycin sulfate**. **CAS** 1405-41-0.

GERANIOL

G-001

C₁₀H₁₈O

154.25

F

As fragrance in perfumery. As insect attractant. Also available as part of Mx-07, Mx-08. ${\bf CAS}$ 106-24-1.

Geranium oil

G-002 F

A fragrance used in various perfumes. Used as odorant for tooth and dusting powders, ointments, etc. The raw material for this product is made from an steam destillation of the whole plant of Pelargonium graveolens. Contains among other substances DL-Citronellol, Geraniol, Linalool, Menthone and Citral. Also known as Geranium oil Bourbon. **CAS** 8000-46-2.

Geranium oil Bourbon

Change of name as of January 2016; please refer to Geranium oil (Art. No. G-002).

GLUTARAL

G-003 C₅H₈O₂ 100.12 ICB, DS, P, SH, DMS

Used in the sterilization of endoscopic instruments, dental and barber equipment. Used as embalming fluid, in electron microscopy. A tanning agent for leather. A hardener for photographic gelatin. A pharmacological agent used for hyperhidrosis and antifungal purposes and for treatment of warts and some bullous diseases as well as herpes infections. Also known as Glutaraldehyde.

May cause airborne contact dermatitis. CAS 111-30-8.

GLYCERYL THIOGLYCOLATE

G-004 C₅H₁₀SO₄ 166.22 ICB, H

A component in "acid" permanent waving formulations, mainly for use in hairdressing salons. **CAS** 30618-84-9.

Gold(I)sodium thiosulfate dihydrate

G-005 AuNa₃(S₂O₃)₃2H₂O526.27 DMP

A gold derivative used for screening of contact allergy to dental gold materials. **CAS** 10233-88-2.

Art. No.

Formula

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Series



Hexachlorophene

H-001

C₁₃H₆Cl₆O₂

406.91

7

Atopical antiseptic in germicidal soaps, creams, deodorants, cleansers, shampoos, after-shave creams, pHisoHex surgical cleanser. **Cross:** bithionol, halogenated salicylanilides. PA. CAS 70-30-4.

Hexahydro-1,3,5-tris-(2-hydroxyethyl)triazine

H-002

 $C_9H_{21}N_3O_3$

219.29

C, O

A bactericide used in cooling fluids and various cosmetic products, acting as formaldehyde liberator. Active component in **Grotan BK**. **CAS** 4719-04-4.

Hexamethylene diisocyanate

H-022

 $C_8 H_{12} N_2 O_2$

168.20

An isocyanate monomer in polyurethane paints and lacquers. Also known as $\,$ HDI. **CAS** 822-06-0.

1,6-Hexanediol diacrylate

H-004

C₁₂H₁₈O₄

226.28

DS, MA, MN, MP. DMP

A common acrylic monomer in UV-cured inks, adhesives, coatings, photoresists, castings, artificial nails, etc. Also known as HDDA. A monomer in dental composite materials. **CAS** 13048-33-4.

1,6-Hexanediol diglycidylether

H-026

C₁₂H₂₂O₄

230.30

ᆫ

Used as a general purpose diluent to reduce viscosity of epoxy resins, favoring improved filler loading and substrate wetting and resulting in faster curing time. End applications include coating, adhesive, casting, laminating, encapsulation or foam. It is also used as a stabilizer for chlorinated vinyl resins and rubber. Also known as 2,2'-(1,6-hexanediylbis(oxymethylene))bis-oxirane. **CAS** 16096-31-4.

Hexyl cinnamic aldehyde

H-025 $C_{15}H_{20}O$ 216.35 F

A fragrance used in various perfumed products. Odor profile: floral, jasmin, waxy. Olfactory description: Similar to α -amyl cinnamic aldehyde but with a finer, more floral and delicate character. Found in acid cleaner liquid, detergent TAED, alcoholic lotion, fabric softener, anti perspirant, bath foam, bleach, hard surface cleaner, deo-stick shampoo, detergent perborate and soap. Also known as α -Hexylcinnamaldehyde. Also available as part of Mx-25. **CAS** 101-86-0.

HOMOSALATE

H-024 $C_{16}H_{22}O_3$ 262.35 SU, EPE

An UV adsorbing agent found in sunscreen cosmetics of the type creams, lotions, lipsticks, sun oils, etc. Found in e.g. Coppertone products. Also known as 3,3,5-trimethylcyclohexyl salicylate. **CAS** 118-56-9.

Hydantoin

H-027 $C_3H_4N_2O_2$ 100.08 CAD

Hydantoin, also known as glycolyurea, is an imidazole analogue. Hydantoin and its derivatives are used in the preperation of textile softeners, lubricants, resins, and agrochemicals. They have antibacterial, antifungal, antiprotozoal, and anthelmintic activity. They are used in manufacturing pharmaceuticals especially anticonvulsant drugs such as phenytoin, ethotoin, and methyphenytoin. **CAS** 461-72-3.

Hydrazine sulfate

H-005 $H_6 N_2 O_4 S$ 130.12 O

Used as flux for soldering brass, copper, aluminium, and other metals. Also used as pressure stabilizer in cutting oils. **May cause airborne contact dermatitis. CAS** 10034-93-2.

HYDROABIETYL ALCOHOL

A-002 $C_{20}H_{34}O$ 290.54 C, PG

An organic alcohol derived from wood rosin. Used in adhesives, mascara, inks, sealants, etc. Also used as plasticizer in plastic materials. Also known as Abitol. **CAS** 13393-93-6.

Art. No. Formula FW Series

Hydrochlorothiazide

H-029 C₂H₂CIN₂O₄S₂ 297.73 CAD

Hydrochlorothiazide, sometimes abbreviated HCT, HCTZ, or HZT is a popular diuretic drug that acts by inhibiting the kidneys' ability to retain water. This reduces the volume of the blood, decreasing blood return to the heart and thus cardiac output and, by other mechanisms, is believed to lower peripheral vascular resistance. Hydrochlorothiazide is sold both as a generic drug and under a large number of brand names, including: Apo-Hydro, Aquazide H, Dichlotride, Hydrodiuril, HydroSaluric, Microzide, Oretic. CAS 58-93-5.

Hydrocortisone-17-butyrate

H-021 $C_{25}H_{36}O_6$ 432.62 IS, CS

Used as a topical corticosteroid with anti inflammatory properties. Marker for topical corticosteroid allergy. Also available as part of Mx-23. Cross: Budesonide, Fluocinolone acetonide, Hydrocortisone, Prednisolone Acetate, Tixocortol-21-Pivalate, Triamcinolone acetonide. CAS 13609-67-1

Hydrocortisone-21-acetate

H-034 $C_{23}H_{32}O_6$ 404.50 CS

Atopical corticosteroid with anti-inflammatory and immunosuppressive properties, belonging to the group A type of steroids. Used in medication to treat a variety of skin conditions (e.g., eczema, dermatitis, allergies, rash).

Cross: Budesonide, Fluocinolone acetonide, Hydrocortisone, Hydrocortisone 17-butyrate, Prednisolone acetate, Methylprednisolone aceponate, Tixocortol-21-pivalate, Triamcinolone acetonide. CAS 50-03-3

HYDROGEN PEROXIDE

H-006 $H_{2}O_{2}$ 34.02 H

A component in hair bleaches and a topical antiseptic agent. **CAS** 7722-84-1.

Hydroperoxides of Limonene

H-032 ICB, B, F, O

Limonene is found in cosmetics, fine fragrances and hygiene

products as well as in household and industrial products. Limonene is one of the most commonly found fragrance ingredients in consumer products presently available. Limonene is a naturally occurring terpene, present in large amounts in various citrus fruits. Limonene autoxidize on air exposure at room temperature forming hydroperoxides. Compared to pure unoxidized limonene the hydroperoxides of oxidized limonene have shown to be far more allergenic. NOTE: The preparation contains oxidized d-limonene. The concentration of the active haptens in the preparation is measured from the total amount of the hydroperoxides of d-limonene.

Hydroperoxides of Linalool

H-031 ICB, F

Linalool is found in fine fragrances, cosmetics, and hygiene products as well as in household and industrial products. Linalool is among the most commonly found fragrance ingredients in consumer products presently available. Linalool is a naturally occurring terpene, present in large amounts in various plants, for example in lavender, rosewood, bergamot and jasmine. Linalool autoxidize on air exposure at room temperature forming hydroperoxides. Compared to pure unoxidized linalool the hydroperoxides of oxidized linalool have shown to be far more allergenic. NOTE: The preparation contains oxidized linalool. The concentration of the active haptens in the preparation is measured from the total amount of the hydroperoxides of linalool.

HYDROQUINONE

H-007 $C_6H_6O_2$ 110.11 H, P, PG

A inhibitor in acrylic monomers, used as antioxidant e.g. in animal feed. Also used as photographic reducer and developer. Also known as HQ. Cross: resorcinol. May cause depigmentation. CAS 123-31-9.

Hydroquinone monobenzylether

H-019 $C_{13}H_{12}O_2$ 200.23 SH

A antidegradant added to rubber products. Used as inhibitor in acrylic resins. **May cause depigmentation. CAS** 103-16-2.

HYDROXYCITRONELLAL

H-008 $C_{10}H_{20}O_2$ 170.25 F

A fragrance used in various perfumes, antiseptics, insecticides and household products. Also known as Hydroxycitronellal. Also available as part of Mx-07, Mx-08. Cross: citronellal, geranial, methoxycitronellal. May produce hyperpigmentation. CAS 107-75-5.

2-Hydroxyethyl acrylate

H-009 C_EH₈O₃ 116.12 MN, MP

An acrylic monomer used in UV-inks, adhesives, lacquers, artificial nails etc. Also known as HEA. **CAS** 818-61-1.

2-Hydroxyethyl methacrylate

H-010 $C_6H_{10}O_3$ 130.15 DMP, MA, MN, MP

A methacrylic monomer used in UV-inks, adhesives, lacquers, dental materials, artificial nails etc. Also known as HEMA. **CAS** 868-77-9.

HYDROXYETHYL-p-PHENYLENEDIAMINE SULFATE

H-033 $C_8H_{12}N_2O\cdot H_2O_4S$ 250.27 H

This substance is a hair dye ingredient used in the formulation of permanent hair dyes and colors. **CAS** 93841-25-9.

HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE

L-003 C₁₃H₂₂O₂ 210.00 S, ICB, F, IS

A fragrance known for it's soft delicate floral, lily, cyclamen note reminiscent of hydroxycitronellal. Used in producs such as Alcoholic Lotion, Anti Perspirant, Deo Stick, Detergent Perborate, Detergent TAED, Fabric Softener, Hard Surface Cleaner, Shampoo and soap. Stabilized with 0.1% BHT. Also known as 3-cyclohexene-1-carboxaldehyde, 4-(4-hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde, HICC and Lyral. Also available as part of Mx-25. **CAS** 31906-04-4.

HYDROXYLAMINE HCL

H-011 CIH, NO 69.49 P

A reducing agent used in photography, textiles, chemistry, etc. Found in floor lacquers and as antioxidant for fatty acids and soaps. Also known as Hydroxylammonium chloride. **CAS** 5470-11-1.

HYDROXYLAMINE SULFATE

H-012 H₈N₂O₆S 164.15 P

Used as reducing agent in photography, textiles, chemistry, etc. Also known as Hydroxylammoniumsulfate. **CAS** 10039-54-0.

Hydroxypropyl acrylate

H-017 $C_6H_{10}O_3$ 130.15 MP

An acrylic monomer used in UV inks, lacquers, adhesives, etc. Also known as 2-Hydroxy-1-propylacrylate. **CAS** 25584-83-2.

Hydroxypropyl methacrylate

H-018 C₂H₄₂O₃ 144.17 MA, MN, MP

A monofunctional methacrylic monomer found in dental composites and sealants, UV-curable resins for inks etc. Also known as HPMA. **CAS** 27813-02-1.

Hydroxyzine hydrochloride

H-028 C₂₁H₂₇CIN₂O₂·2HCI 447.83 CAD

This substance is a first-generation antihistamine, of the piperazine class that is an H1 receptor antagonist. It is used primarily as an antihistamine for the treatment of itches and irritations, an antiemetic for the reduction of nausea, as a weak analgesic by itself and as an opioid potentiator, and as an anxiolytic for the treatment of anxiety. The drug is available in two formulations, the pamoate and the dihydrochloride or hydrochloride salts. Vistaril®, Equipose®, Masmoran®, Paxistil®, and Vistaril Pamoate® are preparations of the pamoate salt whilst Atarax®, Alamon®, Aterax®, Durrax®, Tran-Q®, Orgatrax®, Quiess®, Vistaril Parenteral®, and Tranquizine® are hydroxyzine hydrochloride. **CAS** 2192-20-3.

Art. No. Fo

Formula

FW

Series

Ibuprofen

I-010

 $C_{13}H_{18}O_2$

206.3

CAD, EPE

A NSAID originally marketed as Nurofen and since under various trademarks, including Act-3, Advil, Brufen, Dorival, Herron Blue, Panafen, Motrin, Nuprin and Burana, Ipren or Ibumetin, Ibuprom, IbuHEXAL, Ibusal, Fenpaed, Moment, Ibux, Íbúfen, Ibalgin, Bupuren, Neofen, Eve and Advil. It is used for relief of symptoms of arthritis, primary dysmenorrhoea, fever, and as an analgesic, especially where there is an inflammatory component. Ibuprofen has no antiplatelet (blood-thinning) effect. **CAS** 15687-27-1.

IMIDAZOLIDINYL UREA

I-001

 $C_{11}H_{16}N_8O_8$

388.31

ICB, C, H, IS, LU

A preservative used in lotions, creams, hair conditioners, shampoos, deodorants and topical drugs. Works as a formaldehyde releaser. Also known as Germall 115, Imidurea NF, Sept 115, Unicide U-13, Tristat IU and Biopure 100. **CAS** 39236-46-9.

Imipenem monohydrate

Deleted as of 2018.

Indium

I-015

In

114.82

MET

Indium is a rare, soft, malleable and easily fusible poor metal. Its current primary application is to form transparent electrodes from indium tin oxide in liquid crystal displays. It is widely used in thin-films to form lubricated layers, it is also used for making particularly low melting point alloys, and is a component in some lead-free solders. It is sometimes present in dental alloys. **CAS** 7440-74-6.

Indium(III)chloride

I-011

Cl₃In

221.18

MET

This hapten is a marker for contact allergy to indium. This metal is a

colorless salt and also the most available soluble derivative of indium. Indiclor Indium In-111 Chloride is a diagnostic radiopharmaceutical intended for radiolabeling ProstaScint (capromab pendetide) used for in vivo diagnostic imaging procedures and for radiolabeling Zevalin (ibritumomab tiuxetan) in preparations used for radioimmunotherapy procedures. **CAS** 10025-82-8.

Indium(III)sulfate

I-013 $In_2(SO_4)_3$ 517.83 MET

This hapten is a marker for contact allergy to **indium**. Indium sulfate is readily soluble in water for uses such as in water treatment. Indium sulfate is being marketed as a miracle dietary supplement and is falsely advertised as a dietary aid as an enhancer of food and mineral absorption, an anti-aging supplement, a blood pressure lowering supplement. **CAS** 13464-82-9.

IODOPROPYNYL BUTYLCARBAMATE

I-008 C₈H₁₂INO₂ 281.09 ICB, C, O

A compound used as fungicide and bactericide for wood and paint preservation and in cooling fluids. Now also permitted and used as a cosmetics preservative in products such as shampoos, lotions, creams, powders and baby products. Also known as Troysan KK-108a and under trade name Glycasil™. **CAS** 55406-53-6.

Iridium

I-014 Ir 192.22 MET

Iridium is a dense, very hard, brittle, silvery-white transition metal of the platinum family. Iridium is notable for being the most corrosion-resistant element known. It is used in high-temperature apparatus, electrical contacts, but the principal use of iridium is as a hardening agent in platinum alloys. Other uses: Crucibles and devices that require high temperatures. Electrical contacts (notable example: Pt-Ir spark plugs). Used in high-dose-radiation therapy for the treatment of prostate and other forms of cancer. **CAS** 7439-88-5.

Iridium(III)chloride trihydrate

I-012 Cl₃Ir₃H₂O 352.62 MET

This hapten is a marker for contact allergy to iridium. Iridium(III)

chloride trihydrate is the principal starting material for most iridium chemistry. Among other uses it is used in the production of hydrogen peroxide. **CAS** 13569-57-8.

ISOAMYL p-METHOXYCINNAMATE

I-009

 $C_{15}H_{20}O_3$

248.40

ICB, SU, EP, EPE

A UV-B adsorbing agent in sunscreen cosmetics of the type creams, lotions, lipsticks, sun oils, waterproof sunscreens products etc. Trade name is Neo Heliopan E1000. **CAS** 71617-10-2.

ISOEUGENOL

1-002

C₁₀H₁₂O₂

164.21

B, F

A fragrance used in perfumery, over-the-counter medicines, dental materials and foods. Also used in the production of Vanillin flavor. Found in oils of nutmeg, ylang-ylang etc. Also available as part of Mx-07, Mx-08. **Cross: EUGENOL. CAS** 97-54-1.

α-Isomethyl ionone

I-017

C₁₄H₂₂O

206.32

F

 α -Isomethyl ionone is used in many floral fragrances, particularly violet. Blends with and supports woody, leathery and oriental accords. **CAS** 127-51-5.

Isophorone diamine

I-006

 $C_{10}H_{22}N_2$

170.29

E, I

A common hardener for epoxy resins. Also a degradation product from Isophorone diisocyanate. Also known as IPD. **CAS** 2855-13-2.

ISOPHORONE DIISOCYANATE

I-007

 $C_{12}H_{18}N_2O_2$

222.28

I

Used in the manufacture of polyurethane plastics and lacquers. Also known as IPDI. **Cross: Isophorone diamine. CAS** 4098-71-9.

 Art. No.
 Formula
 FW
 Series

 ISOPROPYL MYRISTATE
 I-003
 C₁₇H₂₄O₂
 270.44
 ICB, C

An emollient found in cosmetic and pharmaceutical bases. Has solvent properties. **CAS** 110-27-0.

N-Isopropyl-N-phenyl-4-phenylenediamine

I-004 C₁₅H₁₈N₂ 226.32 S, IS, R, SH

An antidegradant in natural rubber, styrene-butadiene, nitrile-butadiene, butadiene and chloroprene rubber. Also known as IPPD. Also available as part of Mx-04. **CAS** 101-72-4

J

Jasmine synthetic

J-001 F

Synthetic jasmine for use as fragrance in perfumery. **Cross:** benzylsalicylate.

Jasmine absolute

J-002 F

Natural jasmine for use as fragrance in perfumery. The raw material for this product is made from an hexane extraction of the Jasminum Grandiflorum giving a concrete, then the absolute is obtained by extrating the concrete with ethanol. Contains among other substances Benzylbenzoate, Phytol, Isophytol, Linalool, Eugenol, Benzylalcohol, Benzyl salicylate. **Cross: benzylsalicylate. May produce hyperpigmentation. CAS** 84776-64-7.

Juniperus oxycedrus extract

J-003

Tar obtained from distillation of Juniperus oxycedrus for use in, e.g., eczema and psoriatic medications and perfumes. Also known as Juniper tar. Also available as part of Mx-14. **CAS** 8013-10-3.

Art. No.

Formula

FW

Series



Kanamycin sulfate

K-001

$$C_{18}H_{36-37}N_{4-5}O_{10-11}H_2SO_4$$

ME

An antibacterial agent similar to neomycin. Cross: neomycin, streptomycin, gentamicin sulfate, dihydrostreptomycin. CAS 25389-94-0.

Ketoprofen

K-002B

 $C_{16}H_{14}O_3$

254.28

CAD, EP, EPE

Ketoprofen, (RS)2-(3-benzoylphenyl)-propionic acid, is one of the propionic acid NSAIDs with analgesic and antipyretic effects. **CAS** 22071-15-4.

LANOLIN ALCOHOL

W-001

S, IS

Different types of alcohols (aliphatic, steroid, triterpenoid) present in wool fat (lanolin). Used as ointment base in cosmetic and pharmaceutical products. Also known as Wool alcohols. **Cross:** eucerin, lanette wax. CAS 8027-33-6.

Lamotrigine

L-009

C₉H₇Cl₂N₅

256.09

CAD

This substance is an anticonvulsant drug used in the treatment of epilepsy and bipolar disorder. It is believed to work in adjunct with other drugs when treating clinical depression. It is used in slow-releasing tablets to prevent episodes of seizures. **CAS** 84057-84-1

LAURYL POLYGLUCOSE

L-004

C, H

A C_{10} - C_{16} non-ionic surfactant with good dermatological compatibility

and viscosity enhancing effects. Therefore it is suitable for use as an additive or a co-surfactant in cosmetic surfactant cleansing preparations in e.g. shampoos. Also known as Lauryl glycoside, PLANTACARE® 1200 and D-Glucopyranoside. **CAS** 110615-47-9.

LAVANDULA ANGUSTIFOLIA OIL

Change of name as of January 2016; please refer to Lavender absolute (Art. No. L-001).

Lavender absolute

L-001 F

A fragrance used in various perfumes. Also used as flavor and carminative. The raw material for this product is made from the freshly cut flowering tops of Lavendula Angustfolia, these are extracted with hexane giving a concrete, then the absolute is obtained by extrating the concrete with ethanol. Also known as LAVANDULA ANGUSTIFOLIA OIL. **Cross: Geranial. CAS** 8000-28-0.

Lead(II)acetate trihydrate

L-007 Pb(C₂H₃O₂)₂3H₂O 379.33 MET

This hapten is a marker for contact allergy to **lead**. A white crystalline substance used as a reagent to make other lead compounds and as a fixative for some dyes. In low concentrations, it is the principal active ingredient in progressive types of hair coloring dyes. Lead(II) acetate is also used as a mordant in textile printing and dyeing, as a drier in paints and varnishes. **CAS** 6080-56-4.

Lead(II)chloride

L-008 PbCl₂ 278.10 MET

This hapten is a marker for contact allergy to **lead**. Occurs naturally in the form of the mineral cotunnite. It is used in production of infrared transmitting glass and of ornamental glass called aurene glass. A basic chloride of lead, PbCl₂Pb(OH)₂, is known as Patteson's white lead and is used as pigment in white paint. **CAS** 7758-95-4.

Art. No.	Formula	FW	Series
Lidocaine			
L-002	$C_{14}H_{22}N_2O$	234.33	ICB, ME, V

Used as a local anesthetic and as antiarrhythmic agent. Also available as part of Mx-13 and Mx-20. **CAS** 137-58-6.

d-Limonene

Limonene is a hydrocarbon, classified as a cyclic terpene. It is a colourless liquid at room temperatures with an extremely strong smell of oranges. It takes its name from the lemon, as the rind of the lemon, like other citrus fruits, contains considerable amounts of this chemical compound, which is responsible for much of their smell. Limonene is a chiral molecule, and as is common with such forms, biological sources produce one enantiomer: the principal industrial source, citrus fruit, contains d-limonene ((+)-limonene), which is the R-enantiomer. Racemic limonene is known as dipentene. **CAS** 5989-27-5.

LINALOOL

L-005
$$C_{10}H_{18}O$$
 154.25 F

Linalool is a naturally-occurring terpene alcohol chemical found in many flowers and spice plants with many commercial applications, the majority of which are based on its pleasant scent (floral, with a touch of spiciness). It is a main constituent of oils of rosewood, Ho, lavender, lavandin, clary sage, bergamot, petitgrain; minor of neroli, tangerine and jasmine. It has other names such as Linalool synthetic, β -linalool, linalyl alcohol, linaloyl oxide, p-linalool, allo-ocimenol, 2,6-dimethyl-2,7-octadien-6-ol and linalool synthetic. **CAS** 78-70-6.

Lyral

Change of name as of January 2015; please refer to HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE (Art. No. L-003).

Formula

FW

Series

M

Majanthole

M-033

 $C_{12}H_{18}O$

178.27

F

Majantol has a fresh and intensely floral note. The recommended use level of this colorless liquid-to-crystalline product is 5–20%. This ingredient can be used in lily of valley and fruity floral fragrances for detergent powder, fabric softener and soap applications. Also known as 2,2-dimethyl-3-(3-methylphenyl)propan-1-ol. **CAS** 103694-68-4.

MANGANESE CHLORIDE

M-031

Cl₂Mn

125.84

MET

This hapten is a marker for contact allergy to **manganese**. This chemical is used as a catalyst in the chlorination of organic compounds, in animal feed, and in dry-cell batteries. Metallic manganese is used primarily in steel production to improve hardness, stiffness, and strength. It is also used in carbon steel, stainless steel, and high-temperature steel, along with cast iron and superalloys. **CAS** 7773-01-5.

Melamine formaldehyde

M-001

 $C_6^{}H_{12}^{}N_6^{}O_3^{}$

216.20

TF

A textile resin of formaldehyde releasing type for the treatment of draperies, collars, apparel, etc. Also known as Kaurit M70. Also available as part of Mx-16.

MENTHA PIPERITA OIL

Change of name as of January 2016; please refer to Peppermint oil (Art. No. P-036).

MENTHOL

M-002

 $C_{10}H_{20}O$

156.26

В

Found in confectionery, perfumery, cough drops, cigarettes, liqueurs, etc. Also used as a topical antipruritic, local anesthetic, gastric sedative. **ICU. CAS** 89-78-1.

Art. No.	Formula	FW	Series
2-Mercapto	obenzothiaz	ole	S, ICB, O, R,
M-003	C ₇ H ₅ NS ₂	167.25	SH, IS

An accelerator, retarder, and peptizer for natural and other rubber products such as shoes, gloves, rubber in undergarments and clothing, condoms and diaphragms, medical devices, toys, tires and tubes, renal dialysis equipment, swimwear. Can also be uesed as a fungicide and works as a corrosion inhibitor in soluble cutting oils and antifreeze mixtures. Also used in greases, adhesives, photographic film emulsions, detergents, veterinary products such as tick and flea powders and sprays. Also known as MBT. Also available as part of Mx-05A. Mx-05B. **CAS** 149-30-4.

Mercury(II)chloride

M-004 HgCl ₂ 271.50 ME I	
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This hapten is a marker for contact allergy to **mercury**. Used in tanning leather and an intensifier in photography. Can also be used a topical antiseptic and disinfectant. **Cross: other mercurials. CAS** 7487-94-7.

Mercury			DS, DMP, DMS,
M-005	Hg	200.59	MET

Is a chemical reagent and can be found in thermometers and dental amalgams. But also in pharmaceuticals, antifouling paints, agricultural chemicals. **May cause airborne contact dermatitis. CAS** 7439-97-6.

Mercury(II)amidochloride

M-022	$Cl_4H_8HgN_2$	378.52	MET	

This hapten is a marker for contact allergy to **mercury**. Inorganic mercurial compound used in creams as a topical antiinfective agent (formerly used in the treatment of psoriasis and in skin-lightening formulations). **May cause pigmentation and depigmentation. CAS** 10124-48-8.

Mercury ammonium chloride

Change of name as of January 2014; please refer to Mercury(II) amidochloride (Art. No. M-022).

2,2-bis(4-(2-Methacryl-oxyethoxy)phenyl)propane

M-006

C₂₇H₃₂O₆

452.55

DS, MP, DMP

A methacrylic monomer based on bisphenol A. Used in dental restorative composite materials and as a reactive monomer in adhesive products Also known as BIS-EMA. **CAS** 24448-20-2.

METHENAMINE

H-003

 $C_6 H_{12} N_4$

140.19

C, E, R

Used as an urinary antiseptic agent but also as a rubber accelerator and formaldehyde liberator. Used in the production of phenol-formaldehyde resins and can be found as a preservative in cosmetic products. Other uses inclue epoxy curing agent and corrosion inhibitor for steel. Also known as Hexamine and Hexamethylenetetramine. **May cause airborne contact dermatitis. CAS** 100-97-0.

2-Methoxy-6-n-pentyl-4-benzoquinone

M-008

 $C_{12}H_{16}O_3$

208.26

S

The primary hapten of the plant Primula Obconica found in glandular hairs on the leaves and the stem. Also known as Primin. **May cause airborne contact dermatitis from contact with Primula. CAS** 15121-94-5.

p-METHYLAMINOPHENOL

M-040

 C_7H_9NO

123.15

Η

The free form of this chemical is known to be present in many hair dyes, as well as in photographic developing and dyeing of furs. **CAS** 150-75-4.

p-METHYLAMINOPHENOL SULFATE

M-009

 $C_{14}H_{20}N_2O_6S$

344.39

Ρ

A black & white photographic developer and pigment in hair dyes. Also known as Metol. May induce lichen planus. Cross: Para group of compounds. CAS 55-55-0.

METHYL ANTHRANILATE

M-028

151.16

F

Used in a wide variety of fragrances and flavors. Used as perfume in ointments and in the manufacture of synthetic perfumes;

flavorings. Odor Description: orange-flower, fruity, grape-like odor. Some perfumery uses: cherry, banana, strawberry, blueberry, grape. Natural occurrences: grape, concord. Also known as Methyl anthranilate. **CAS** 134-20-3.

4-METHYLBENZYLIDENE CAMPHOR

M-024

 $C_{18}H_{22}O$

254.37

SU, EP, EPE

A UV-B absorbing agent in sunscreen cosmetics of the type creams, lotions, lipsticks, sun oils, etc. Also known as Eusolex 6300. **CAS** 36861-47-9.

6-METHYL COUMARIN

M-010

 $C_{10}H_8O_2$

160.17

V

A Synthetic fragrance found in cosmetics, toiletries and soaps. **Cross (photo): 7-methylcoumarin, COUMARIN, 7-methoxycoumarin. PA. CAS** 92-48-8.

METHYLDIBROMO GLUTARONITRILE

D-049

 $\mathsf{C_6H_6Br_2N_2}$

265.94

S, ICB, C, O, IS

A preservative for metalworking fluids, cosmetics, adhesives, latex emulsions and paints, dispersed pigments and detergents. Active ingredient in Euxyl K 400 and Tektamer 38. Also known as 1.2-Dibromo-2.4-dicyanobutane and MDBGN. **CAS** 35691-65-7.

N,N-Methylene-bisacrylamide

M-023

 $C_7 H_{10} N_2 O_2$

154.17

MP

An acrylamide compound cross-reacting with unidentified primary sensitizers in NAPP and Nyloprint UV-cured printing plates. **CAS** 110-26-9.

Methylene bis-benzotriazolyl tetramethylbutylphenol (containing DECYL GLUCOSIDE)

M-032

 $C_{41}H_{50}N_6O_2$

658.86

٧

An UV absorbing agent added to sunscreens as a UV-A and UV-B filter. Hapten produced from Tinosorb M, a product made by BASF. Contains DECYL GLUCOSIDE. It is a sunscreen that combine the benefits of an organic and an inorganic filter. Methylene bis-

benzotriazolyl tetramethylbutylphenol can be incorporated in sunscreens, but also in day care products as well as skin lightening products. **CAS** 103597-45-1.

Methylene bis-benzotriazolyl tetramethylbutylphenol

M-037

 $C_{41}H_{50}N_{6}O_{2}$

658.86

SU, EP, EPE

UV absorbing agent present in sunscreens as a UV-A and UV-B filter. Main component in Tinosorb M (see M-032). This hapten does not contain DECYL GLUCOSIDE. **CAS** 103597-45-1

α-Methylene-γ-butyrolactone

M-026

C₅H₆O₂

98.10

PL

Tulipaline A, hapten in the Liliaceae family of plants to which species such as Tulip, Alstromeria Erythronium dens canis & americanum belong. **CAS** 547-65-9.

Methylhydroquinone

M-025

C₇H₈O₂

124.14

DS

A stabilizer and antioxidant in acrylic monomers to prevent polymerization. **CAS** 95-71-6.

METHYLISOTHIAZOLINONE

M-035

C₄H₅NOS

115.15

S, ICB, C, IS, V

A component in Kathon CG which is used as preservative for use in cosmetics, shampoos, cooling fluids, detergents etc. Also present as a component in Art. No. C-009 (see this compound for further information). Also known as MI. **CAS** 2682-20-4.

METHYLISOTHIAZOLINONE + METHYLCHLOROISOTHIAZOLINONE

C-009

C₄H₄CINOS

149.60

S, ICB, C, H, O, SH, IS

This product, a component in biocides, is used as a preservative in oil and cooling fluids, soaps, latex emulsions, slime control in paper mills, jet fuels, milk sampling, radiography, printing inks, moist toilet paper, detergents, shampoos, hair conditioners, hair

Art. No. Formula FW Series & body gels, bubble baths, skin creams & lotions, mascaras, etc. The following biocides contain METHYLISOTHIAZOLINONE + METHYLCHLOROISOTHIAZOLINONE: Acticide, Algucid CH 50, Amerstat 250, Euxyl K 100, Fennosan IT 21, GR 856 Izolin, Grotan TK2, Kathon CG, Kathon 886MW, Kathon LX, Kathon WT, Mergal K7, Metatin GT, Mitco CC 31 L, Mitco CC 32 L, Special Mx 323, Parmetol DF 35,-DF 12, -A23,-K50,-K40,-DF 18, P3 Multan D, Piror P109. Also known as ProClin 150, MI/MCI. METHYLISOTHIAZOLINONE is also available separately as Art. No. M-035 May cause airborne contact dermatitis. CAS 55965-84-9.

Methyl methacrylate M-013 C_cH_oO₂

100.12

ICB, DS, MA, DMP, DMS, MP

A methacrylic monomer in plastics for dentures, bone cement, artificial nails, hearing aids etc. Also known as MMA. **CAS** 80-62-6.

Methyl-2-octynoate

M-034

 $C_9H_{14}O_2$

154.21

F

Methyl-2-octynoate is one of many ingredients in fragrances. It's end applications include soap, detergents, beauty care products, household products. **CAS** 111-12-6.

N-Methylolchloroacetamide

M-014

C₃H₆CINO₂

123.54

0

A preservative in cooling fluids and cosmetics. Also known as Grotan HD II and Parmetol K 50. **May cause airborne contact dermatitis. CAS** 2832-19-1.

METHYLPARABEN

M-012

C_gH_gO_g

152.15

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A preservative in foods (salad dressings, mayonnaise, spiced sauces, mustard, frozen dairy products, baked products), cosmetics and pharmaceutical preparations. Also known as Methyl-4-hydroxybenzoate and Nipagin. Cross: other parabens, hydroquinonemonobenzylether, para group of compounds. Also available as part of Mx-03A, Mx-03C. ICU. NICU. CAS 99-76-3.

Methylprednisolone aceponate

M-036

 $C_{27}H_{36}O_{7}$

472.58

CS

A topical corticosteroid used for treating eczema and psoriasis, it 170

suppresses inflammatory and allergic skin reactions and thus relaxes symptoms originating from the skin problem like redness (erythema), thickening of the skin, coarseness of the skin surface, fluid build-up (edema), itchiness, and other complaints (burning sensation or pain. Due to its high lipophilicity and the fact that it is bioactivated in the skin, enables single daily application without any loss of efficacy. Also known as Advantan. **CAS** 86401-95-8

2-METHYLRESORCINOL

M-039 CH₃C₆H₃(OH)₂ 124.14 H

This substance is typically used in the formulation of hair dyes and colors. **CAS** 608-25-3.'

Miconazole

M-027 $C_{18}H_{14}CI_4N_2O$ 416.12 ME

An antifungal agent of the imidazole type which is used in topical and vaginal preparations to prevent growth of dermatophytes, yeast and molds. **Cross: econazole, enilconazole. CAS** 22916-47-8.

Minocycline hydrochloride

M-029 C₂₃H₂₇N₃O₇·HCI 493.94 CAD

Minocycline hydrochloride, also known as minocycline, is a member of the broad spectrum tetracycline antibiotics, and has a broader spectrum than the other members. It is a bacteriostatic antibiotic. **CAS** 13614-98-7.

Molybdenum

M-030 Mo 95.94 MET

This metal is often used in high-strength steel alloys. It is found in trace amounts in plants and animals, although excess molybdenum can be toxic in some animals. The ability of molybdenum to withstand extreme temperatures without significantly expanding or softening make it useful in applications that involve intense heat, including aircraft parts, electrical contacts, industrial motors, and filaments. Molybdenum is also used in alloys, such as dental alloys for its high corrosion resistance and weldability. Most high-strength steel alloys are 0.25% to 8% molybdenum. **CAS** 7439-98-7.

Molybdenum(V)chloride

M-038 MoCl₅ 273.21 MET

This hapten is a marker for contact allergy to **molybdenum**. This chemical is an inorganic compound, a dark volatile solid which is mainly used in research to prepare other molybdenum compounds. For testing purpose this is also used to test allergy for Molybdenum. Molybdenum compounds are found in the manufacture of aircraft parts, electrical contacts, motors, filaments, and high-strength steel alloys. It can also be found in dental implants. **CAS** 10241-05-1.

2-Monomethylol phenol

M-015 $C_7H_8O_2$ 124.14 PG

An intermediate in the production of phenol formaldehyde resins which may remain after condensation of the resin. Sensitizer in phenol formaldehyde resins. Also used in local anesthetic. Also known as Saligenin. **CAS** 90-01-7.

2-(4-Morpholinylmercapto)benzothiazol (MOR)

M-016 $C_{11}H_{12}N_2OS_2$ 252.47 R

An accelerator for natural rubber, isoprene butadiene, styrenebutadiene, nitrilebutadiene rubber products. Also available as part of Mx-05A, Mx-05B, **CAS** 102-77-2.

MUSK KETONE

M-018 $C_{14}H_{18}N_2O_5$ 294.30 F

A synthetic nitro musk compound used as fragrance and fixative in after shave lotions, perfumes etc. Also available as part of Mx-10B. **CAS** 81-14-1.

Musk moskene

M-019 $C_{14}H_{18}N_2O_4$ 280.33 F

A synthetic nitro musk compound used as fragrance and fixative in after shave lotions, perfumes etc. Also available as part of Mx-10B. **CAS** 116-66-5.

Art. No.	Formula	FW	Series	
Musk xyle	ene			
M-021	$C_{12}H_{15}N_3O_6$	297.45	F	

A synthetic nitro musk compound used as fragrance and fixative in after shave lotions, perfumes etc. The musk compound of choice for soap and detergent fragrances. Also available as part of Mx-10B. Cross (photo): musk ambrette. PA. CAS 81-15-2.

MYROXYLON BALSAMUM RESIN

Change of name as of January 2016; please refer to Tolu balsam absolute (Art. No. B-025).

MYROXYLON PEREIRAE RESIN

Change of name as of January 2016; please refer to Peru balsam (Art. No. B-001).



Narcissus poeticus absolute

N-006 F

A fragrance used in various perfumed products. The raw material for this product is made from an solvent extraction of the flowers of Narcissus poeticus. Also known as Narcissus absolute. **CAS** 90064-26-9.

Neomycin sulfate

N-001 C₂₃H₄₆N₆O₁₃·H₂SO₄ 712.72 S, ICB, IS

A broad-spectrum antibiotic found in topical creams, powders, ointments, eye and ear drops. Also used as systemic antibiotic and growth promotor in veterinary use. Cross: streptomycin, gentamycin, framycetin, dihydrostreptomycin, kanamycin, spectinomycin, tobramycin, paromomycin, butirosin, bacitracin. UCU. CAS 1405-10-3.

Art. No.	Formula	FVV	Series
Nickel(II)sul	fate hexahydı	rate	S, ICB, IS, DS,
N-002	NiO ₄ S·6H ₂ O	262.86	H, SH,DMP

Nickel metal: a common hapten present in various alloys, electroplated metal, earrings, watches, buttons, zippers, rings, utensils, tools, instruments, batteries, machinery parts, working solutions of metal cutting fluids, nickel plating for alloys, coins, pigments, dentures, orthopedic plates, keys, scissors, razors, spectacle frames, kitchenware etc. May produce erythema multiforme like eruptions. May cause airborne contact dermatitis. ICU. CAS 10101-97-0.

Niobium(V)chloride

N-008 NbCl₅ 270.17 MET

In patch testing this chemical is used to diagnose contact allergy to Niobium. Niobium is a metal which can be found in steel, alloys, magnets and electro ceramics. The metal can also be found in medical devices such as pacemakers or joint replacements. It is also used in jewelry. **CAS** 10026-12-7.

4-(2-Nitrobutyl)morpholine

Comp. in E-014 C_oH₄₀N₂O₃ 188.23 O

A preservative used in cooling fluids, crude oil, diesel fuel, heating oil etc. 4-(2-Nitrobutyl)morpholine is present in Bioban P 1487 by 70%. Bioban P 1487 also contains 4,4-(2-Ethyl-2-nitrotrimethylene) dimorpholine. Neither of the substances can be ordered separately. **CAS** 2224-44-4.

Nitrofurazone

N-005 C_EH_EN_AO_A 198.14 ME, LU

A topical antibiotic used in human and veterinary medicine and is sometimes also added to animal feeds. Also known as Furacin. **May cause airborne contact dermatitis. CAS** 59-87-0

2-NITRO-p-PHENYLENE-DIAMINE

N-004 $C_6H_7N_3O_2$ 153.14 H

A dye present in different hair dyeing preparations. These are of the semipermanent type and do not require the use of HYDROGEN PEROXIDE. Also known as 2-Nitro-4-phenylenediamine. **CAS** 5307-14-2.

Art. No.	Formula	FW	Series	
Norfloxacin				
N-007	C.,H.,FN,O,	319.33	CAD	

An oral broad-spectrum fluoroquinolone antibacterial agent used in the treatment of urinary tract infections. The mechanism of action of norfloxacin involves inhibition of the A subunit of bacterial DNA gyrase, an enzyme which is essential for DNA replication. Also known as 1-ethyl-6-fluoro-4-oxo-7-piperazin-1-yl-1H-quinoline-3-carboxylic acid. **CAS** 70458-96-7.



Oakmoss absolute

O-001 F

An extract of oak moss for use as fragrance in many perfume mixtures, after-shave lotions etc. The raw material for this product is made from an hexane extraction of the moss giving a concrete, then the absolute is obtained by extrating the concrete with ethanol. The moss used is Evernia Prunastri. Also known as tree moss. Contains atranorin, evernic acid and usnic acid. Also available as part of Mx-07. NOTE: The preparation is based on the raw material of oakmoss absolute that has NOT been subject to chemical reduction of atranol and chloroatranol. PA. CAS 9000-50-4.

OCTOCRYLENE

O-009	$C_{24}^{}H_{27}^{}NO_{2}^{}$	361.48	SU, SF, EP, EPE
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An UV-B adsorbing agent in sunscreen cosmetics of the type creams, lotions, lipsticks, sun oils, etc. Also known as 2-ethylhexyl 2-cyano-3,3-diphenylacrylate. Trade name is Eusolex OCR. **CAS** 6197-30-4.

Octyl gallate

O-002	$C_{15}H_{22}O_5$	282.34	B, C	
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An antioxidant for use in cosmetic and pharmaceutical products and in food products such as margarine and peanut butter. Also available as part of Mx-28. **May cause airborne contact dermatitis. CAS** 1034-01-1.

2-n-Octyl-4-isothiazolin-3-one

O-004 C₁₁H₁₀NOS 213.34 ICB, O, PG, SH

A fungicide used in paints, cutting oils, wallpaper adhesives, etc. Also used for the preservation of leather. Also known as Skane M-8, Kathon 893. **CAS** 26530-20-1.

Olaquindox

O-008 C₁₂H₁₃N₃O₄ 263.25 V, EPE

A widespread growth promotor in pig breeding acting as a chemotherapeutic agent prophylactically used to lower the frequency of bacterial enteritis in pigs. Also known as N-(2-Hydroxyethyl)-3-methyl-2-quinoxalinecarboxamide-1,4-dioxide and Bayo-n-ox. **May casue airborne photodermatitis. PA. PL. PT. CAS** 23696-28-8.

OLEAMIDOPROPYL DIMETHYLAMINE

O-005 $C_{23}H_{46}N_2O$ 366.25 ICB, C, O

A cationic emulsifier used in cosmetics such as body lotions, creams, shampoos, hair rinse preparations, etc. **CAS** 109-28-4.

Oligotriacrylate (OTA 480)

O-003 480 MP

A multifunctional acrylic monomer used in lithographic inks, overprinting varnishes, coatings on wood, paper, etc. cured by UV-light. **CAS** 52408-84-1.

OLEA EUROPAEA OIL

Deleted as of January 2017



PABA

A-006 $C_7H_7NO_2$ 137.14 SU, EP, EPE

A sun screening agent in cosmetics, moisturizers, shampoos, hair care products, nail polish, lipstick, lip balms, oral vitamin 176

supplements. Used in the production of local anesthetics, folic acid and azo dyes. Also known as 4-Aminobenzoic acid. **Cross: para group of compounds. PA. CAS** 150-13-0.

Palladium(II)chloride

 ${\rm P-001} \qquad \qquad {\rm PdCl}_2 \qquad \qquad 177.31 \qquad {\rm DS,\,DMP,\,MET}$

This hapten is a marker for contact allergy to **palladium**. A chemical catalyst. Can be found in jewelry, dental alloys and electroplating parts of clocks and watches. **CAS** 7647-10-1.

Parthenolide

P-029 $C_{15}H_{20}O_3$ 248.32 PL

Sesquiterpene lactone found in Feverfew (Chrysanthemum Parthenium) which is a Compositae plant growing throughout Europe and in southern USA near homes, on roadsides and in uncultivated places. It is also found in several other Compositae plants and Magnoliaceae. Also available as part of Mx-29A and Mx-29B. **CAS** 20554-84-1.

Penicillin G, potassium salt

Deleted as of January 2018

Pentaerythritol triacrylate

P-002 $C_{14}H_{18}O_{7}$ 298.30 MP

A trifunctional cross-linking acrylic monomer for use in adhesives, coatings, inks, photoresists, castings, etc. cured by UV radiation. **CAS** 3524-68-3.

Peppermint oil

P-036 $C_{10}H_{16}$ 136.2 TF

True peppermint oil is steam distilled from the partially dried herb of Mentha Piperita which is a hybrid from three other species of Mentha, all natives of southern Europe. Uses include antiemetic agent, Autonomic agent, central nervous system agent, gastrointestinal agent, parasympatholytic agent, Pharmaceutic aid, Flavor and Fragrance agent, Essential Oil. Also known as MENTHA PIPERITA OIL, Mentha x piperita L, Peppermint oil, Peppermint terpenes and Pfefferminz oel. **CAS** 8006-90-4.

Peru balsam

B-001 S, ICB, DMP, H, IS

Found as flavor in tobacco, drinks, pastries, cakes, wines, liquors, spices etc. Used as a fixative and fragrance in perfumery. Alos used in topical medicaments, dentistry, etc. Consists of esters of cinnamic and BENZOIC ACID, Vanillin, styracine. Also known as Balsam Peru, MYROXYLON PEREIRAE RESIN, Indian balsam, China oil, Black balsam, Honduras balsam and Surinam balsam. Cross: COLOPHONIUM, tolu balsam absolute, cinnamates, benzoates, styrax, benzoin, tiger balm, beeswax, benzaldehyde, benzylsalicylate, coniferyl alcohol, COUMARIN, EUGENOL, Isoeugenol, FARNESOL, propanidid, propolis, diethylstilbestrol. May produce erythema-multiforme like eruptions. PT. NICU.

PETROLATUM

P-003

A white petrolatum which is a purified mixture of semisolid hydrocarbons. As ointment base in cosmetics. Leather grease and shoe polish component. Supplier of Chemotechniques petrolatum is Penreco. **May cause hyperpigmentation. CAS** 8009-03-8.

Phenol formaldehyde resin (PFR2)

P-005 PG

A resin based on phenol and formaldehyde which contain methylol phenols. Used in binders, adhesives, laminates, impregnation products, surface coatings, casting sand, etc. Simultaneous contact allergic reactions to Peru balsam and COLOPHONIUM over represented. **May cause airborne contact dermatitis.**

PHENOXYETHANOL

P-025 $C_8H_{10}O_2$ 138.16 C

A fixative for perfumes, used as bactericide in conjunction with METHYLDIBROMO GLUTARONITRILE (Euxyl K 400) as well as quaternary ammonium compounds. Also used as insect repellent and topical antiseptic. **CAS** 122-99-6.

1-Phenyl-3-pyrazolidinone

P-004 $C_9H_{10}N_2O$ 162.19 F

A black & white developer in photography. Also known as Phenidone. **CAS** 92-43-3

PHENYLBENZIMIDAZOLE SULFONIC ACID

P-024 C₁₂H₁₀N₂O₂S 274.30 SU, EPE

A sun-screening agent for use in various sunscreen products. Trade names: Eusolex 232 and Novantisol. Also known as 2-Phenylbenzimidazol-5-sulfonic acid. **CAS** 27503-81-7.

Phenylbutazone

P-041 $C_{19}H_{20}N_2O_2$ 308,37 ME

An anti-inflammatory agent with antipyretic and analgesic activities. It is used in the treatment of ankylosing spondylitis and rheumatoid arthritis. In some countries the drug is only approved for use in veterinary medicine. **CAS** 50-33-9.

p-PHENYLENEDIAMINE (PPD)

 $P-006 \qquad \qquad C_6 H_8 N_2 \qquad \qquad 108.14 \qquad \qquad S, ICB, IS, H, SH$

The primary intermediate in permanent hair dyes and fur dyes (valid for p-PHENYLENEDIAMINE (PPD)). Also used in photographic developers, lithography, photocopying, oils, greases, gasoline and as antioxidant/accelerator in the rubber and plastic industry. The hydrochloride is used as blood reagent. Cross: parabens, PABA, para compounds. May produce erythema multiforme like eruptions. May cause airborne contact dermatitis. PA. UCU. CAS 106-50-3

p-PHENYLENEDIAMINE HCL

P-028 C₆H₄(NH₂)₂·2HCl 181.07 V

The hydrochloride is used as blood reagent. The chemical is a known photosensitizer (allergic). Also known as 4-Phenylenediamine dihydrochloride. May elicit contact urticaria. Cross: parabens, PABA, para compounds. May produce erythema multiforme like eruptions. May cause airborne contact dermatitis. PA. UCU. CAS 624-18-0.

Art. No. Formula FW Series

2-Phenyl glycidyl ether

P-023 C₀H₀₀O₂ 150.18 E

A reactive diluent in epoxy resin systems. Forms chemical bonds with the resin during cure and accelerates the curing process.

CAS 122-60-1.

2-Phenylindole

P-007 C₁₄H₁₁N 193.25 PG

A stabilizer in PVC-plastic products. Also known as α -phenylindole. **CAS** 948-65-2

PHENYL MERCURIC ACETATE

P-008 C₈H₈HgO₂ 336.74 C, LU, MET

Used as herbicide and fungicide. As preservative in antibiotic eye drops, eye cosmetics, shampoos, etc. Also known as Advacide PMA 18, Cosan PMA, Mergal A25, Metasol 30, Nildew AC 30, Nuodex PMA 18 and Nylmerate. Cross: p-chloromercuriphenol. ICU. CAS 62-38-4.

N-Phenyl-2-naphtylamine

P-009 C₁₆H₁₃N 219.29 R

An antidegradant for various rubber products such as natural rubber, styrene-butadiene, nitrile, butadiene and chloroprene. Also known as phenyl-beta-naphtylamine and PBN. Also available as part of Mx-11. **CAS** 135-88-6.

o-PHENYLPHENOL

P-010 C₁₂H₁₀O 170.20 O

A preservative used in cosmetics, cooling fluids, detergents and as agricultural fungicide for citrus fruits, etc. Also known as 2-phenylphenol and Dowicide 1. **Photosensitizer.** May cause depigmentation. CAS 90-43-7.

PHENYL SALICYLATE

P-011 $C_{13}H_{10}O_3$ 214.22 C, PG

Used as UV-light adsorber in plastics, suntan oils, and creams.

Also found in waxes, adhesives, polishes etc. Used as analgesic, antipyretic, and anti-rheumatic agent. Can also be found in veterinary use as external disinfectant and intestinal antiseptic agent. Also known as Salol. **CAS** 118-55-8

Pine tar

P-012 V

A product obtained by dry-distillation of wood from pine. Consists of turpentine, various phenols, xylene, etc. Topical antieczematic and rubefacient. Also known as PINUS PALUSTRIS TAR. Also available as part of Mx-14. **CAS** 8011-48-1.

PINUS PALUSTRIS TAR

Change of name as of January 2016; please refer to Pine tar (Art. No. P-012).

Piroxicam

P-033 C₁₅H₁₃N₃O₄S 331.35 CAD, EP, EPE

Piroxicam (marketed in the U.S. under the trade name Feldene) is a NSAID used to relieve the symptoms of rheumatoid and osteoarthritis, primary dysmenorrhoea, postoperative pain; and act as an analgesic, especially where there is an inflammatory component. It is also used in veterinary medicine to treat certain neoplasias expressing cyclooxygenase (COX) receptors, such as bladder, colon, and prostate cancers. Other brand names for Piroxicam include Brexin, Erazon, Felden, Feldoral, Hotemin, Pirox von ct, Proponol, Reumador, Veral, and Vurdon. **CAS** 36322-90-4.

Polymeric diphenylmethane diisocyanate (PMDI)

P-038

Diphenylmethane diisocyanate (MDI), see D-023, is the generic name of a product used in industrial settings. Polymeric MDI (PMDI), the primary technical/commercial form of MDI, is actually a mixture that contains 25–80% monomeric 4,4'-MDI as well as oligomers containing 3–6 rings and other minor isomers, such as the 2,2'-isomer. The exact composition of PMDI varies with the manufacturer. PMDI is used to make rigid and flexible foam, foundry resin sand binders, and heat insulating material.

Art. No.	Formula	FW	Series	
Polysilico	ne-15			
P-035		> 6000	EPE	

Is an organic compound used in hair products like shampoos, conditioners, hair sprays, pomades and color treatment products to absorb UVB radiation. In the EU, it is also approved for use in sunscreens and cosmetics. Also known as Parsol SLX. **CAS** 207574-74-1.

Polyethylene glycol 400 (PEG 400)

P-034 H(OCH₂CH₂)nOH approx. 400 ⁷

Polyethylene glycol PEG400 refers to a polymer of ethylene oxide with a molecular mass below 20,000 g/mol, in this case 400. This chemical has many industrial, foods, cosmetic and medical applications. It is added to skin lotions, creams, jellies, soaps and toothpastes. It is the basis for many laxatives and bowel irrigation preparations. It is also used as a lubricant in tire manufacturing; plasticizer for sponges and synthetic leather; a paper softener; anti-curl agent; and an intermediate in resin manufacturing. **CAS** 25322-68-3

POLYSORBATE 80

P-013 ICB, C

An emulsifier and dispersing agent for medicinal products for internal use. Used as emulsifier in cosmetics, pharmaceuticals & food. Also known as Polyoxyethylenesorbitan monooleate and Tween 80. **CAS** 9005-65-6.

Potassium clavulanate

P-040 C₈H₈NO₅K 237.25 CAD

This chemical is a drug which is given with antibiotics. While not effective by itself as an antibiotic, when combined with penicillingroup antibiotics, it can overcome antibiotic resistance in bacteria that secrete β -lactamase, which otherwise inactivates most penicillin's. **CAS** 61177-45-5.

Potassium dichromate S, ICB, DS, P,

P-014 $Cr_2K_2O_7$ 294.21 SH, IS, DMP

This hapten is a marker for contact allergy to **chromium**. The hexavalent form of chromium, which is used in cement, tanning of leather, textile dyes, wood preservatives, alloys in metallurgy, safety

matches, photography, electroplating, anticorrosives, engraving and lithography, ceramics, automobile industry, TV manufacturing, photocopy paper, tattoos, mascara/eye shadow pigments (chromium oxide), milk testing, welding, floor waxes, shoe polishes, paints, glues, pigments, detergents, etc. **May cause airborne contact dermatitis. CAS** 7778-50-9

Potassium dicyanoaurate(I)

P-015 C₂AuKN₂ 288.13 MET

This hapten is a marker for contact allergy to **gold**. Gold salt used in the electroplating industry. **CAS** 13967-50-5.

Pramoxine hydrochloride

P-039 $C_{17}H_{27}NO_3 \cdot HCI$ 329.86 ME

This substance is a topical anesthetic and used as an antipruritic. Like other local anesthetics, the drug decreases the permeability of neuronal membranes to sodium ions, blocking both initiation and conduction of nerve impulses. Depolarization and repolarization of excitable neural membranes is thus inhibited, leading to numbness. **CAS** 637-58-1.

Prilocaine hydrochloride

P-027 C₁₃H₂₁CIN₂O 256.8 V

Used as a local anesthetic agent. Also known as Citanest, Xylonest. Also available as part of Mx-20. **CAS** 1786-81-8.

Pristinamycin

P-032 CAD

Pristinamycin is an antibiotic used primarily in the treatment of staphylococcal infections, and to a lesser extent streptococcal infections. It is a streptogramin group antibiotic, similar to virginiamycin, derived from the bacterium Streptomyces pristina spiralis. It is marketed in Europe by Sanofi-Aventis under the trade name Pyostacine. Pristinamycin is a mixture of two components that have a synergistic antibacterial action. Pristinamycin I is a macrolide, and results in pristinamycin having a similar spectrum of action to erythromycin. Pristinamycin II is a depsipeptide. **CAS** 11006-76-1.

Procaine hydrochloride

P-016 C13H21CIN2O2 272.77

A local anesthetic agent also known as Novocaine, Ethocaine, Allocaine, Topocaine, Neocaine and Syncaine etc. Also available as part of Mx-12. Cross: para group of compounds. parabens. butethamine, PABA, CAS 51-05-8.

Promethazine hydrochloride

C₁₇H₂₁CIN₂S P-017 320.87 EP. EPE

An antihistaminic, antiemetic, CNS depressant used in pills, syrup, injections and suppositories Also known as Phenergan, Lergigan, Atosil, Fenazil etc. Cross: phenothiazines, ethylenediamine-HCI, para compounds, chlorpromazine HCI, tripelennamine. May produce erythema multiforme like eruptions, PA, UCU, PL, CAS 58-33-3.

PROPIONIC ACID

P-018 C,H,O, 74 08 R

Used as food additive for the preservation against moulds in, e.g., cheese products. Also in the production of fruit flavors and perfume bases, CAS 79-09-4.

Propolis

P-022 ICB, PL, LU

A resinous substance found in beehives (beeglue). Collected by bees from treebuds. Found in biocosmetics, face creams, ointments. lotions, solutions, varnish, toothpaste, mouthwashes, tablets, chewing gum, etc. Also found in wax for violins. Contains flavonoid aglycones and the main hapten is 1,1-dimethylallyl caffeic acid ester (LB-1). Cross: Peru balsam. May cause airborne contact dermatitis. CAS 85665-41-4

PROPYLENE GLYCOL

ICB, C, O, LU P-019 C₂H₂O₂ 76.09

Used as vehicle in pharmaceutical and cosmetic bases. In food it is used as solvent for colors and flavors and to prevent growth of moulds. Works as humectant and can also be found in cooling fluids. UCU. CAS 57-55-6.

Art. No.	Formula	FW	Series	
PROPYL GALLATE				
P-021	$C_{10}H_{12}O_5$	212.20	B, C	

An antioxidant in cosmetic and pharmaceutic creams, emulsions, various fats, oils and waxes. Can also be found in foods like margarine, peanut butter, etc. Also available as part of Mx-28. **CAS** 121-79-9.

PROPYLPARABEN

P-020 $C_{10}H_{12}O_3$ 180.20 V

A preservative in foods (salad dressings, mayonnaise, spiced sauces, mustard, frozen dairy products, baked products), cosmetics and pharmaceutical preparations. Also known as Propyl-4-hydroxybenzoate. Also available as part of Mx-03A, Mx-03C.

Cross: hydroquinone monobenzyl ether, other parabens, para compounds. CAS 94-13-3.



QUATERNIUM-15

C-007 C₀H₁₆Cl₂N₄ 251.20 ICB, S, IS, C, H

A formaldehyde-releasing preservative in hand creams, lotions, face creams, shampoos, latex paints, topical medicaments, polishes, metal working fluids, adhesives, inks, etc. Also known as Dowicil 200 and 1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride. **CAS** 51229-78-8.

Quinine sulfate

Q-001 $(C_{20}H_{24}N_2O_2)_2$ 746.93 ME $H_2SO_4^22H_2O$

An antimalarial agent also used as antipyreticum and in liquids (tonic etc.). **PA. CAS** 6119-70-6.

R

Reactive Black 5

R-004 $C_{26}H_{21}N_5Na_4O_{10}S_6$ 991.79 TF

An azo dye belonging to the reactive dye class used for coloring cotton, wool, silk and polyamide textiles. May cause allergic conjunctivitis, allergic rhinitis and occupational asthma. CAS 17095-24-8

Reactive Blue 21

R-005 TF

A phthalocyanine-copper complex dye belonging to the reactive dye class used for coloring cotton, wool, silk and polyamide textiles. May cause allergic conjunctivitis, allergic rhinitis and occupational asthma. CAS 12236-86-1.

Reactive Orange 107

R-007 TF

An azo dye belonging to the reactive dye class used for coloring cotton, wool, silk and polyamide textiles. **May cause allergic conjunctivitis, allergic rhinitis and occupational asthma. CAS** 94158-82-4.

Reactive Red 123

R-008 TF

An azo dye belonging to the reactive dye class used for coloring cotton, wool, silkand polyamide textiles. **May cause allergic conjunctivitis, allergic rhinitis and occupational asthma.**

Reactive Red 228

R-010 TF

An monoazo dye belonging to the reactive dye class used for coloring cotton, wool, silk and polyamide textiles. **May cause allergic conjunctivitis**, allergic rhinitis and occupational asthma.

Reactive Red 238

R-009 TF

An azo dye belonging to the reactive dye class used for coloring cotton, wool, silk and polyamide textiles. **May cause allergic conjunctivitis, allergic rhinitis and occupational asthma.**

Reactive Violet 5

R-011 TF

An dye belonging to the reactive dye class used for coloring cotton, wool, silk and polyamide textiles. **May cause allergic conjunctivitis, allergic rhinitis and occupational asthma. CAS** 12226-38-9.

RESORCINOL

R-001 $C_6H_6O_2$ 110.11 H

A keratolytic agent found in acne medications. Used in hair dyes, resins, tanning, cosmetics, Castellanis paint, eye drops, suppositories, photocopying and photographic solutions, explosives, etc. Also used a topical antipruritic and antiseptic agent. **Cross:** phenol. May cause orange-brown discoloration of lacquered nails and may darken fair hair. CAS 108-46-3.

Resorcinol monobenzoate

R-002 C₁₃H₁₀O₃ 214.22 PG

An UV-light absorber added mainly to out door plastics. Has caused dermatitis as additive in spectacle frames. **Cross: Peru balsam. CAS** 136-36-7.

Rhodium(III)chloride hydrate

R-013 RhCl₃ · xH₂O MET

This hapten is a marker for contact allergy to **rhodium**. This metal can be found in precious metal alloys and in electroplating. In jewelry it can be found in white gold, platinum, and sterling silver. Rhodium is also used as an alloying agent for hardening and improving the resistance of platinum and palladium to corrosion which can be used in coatings. In the car industry rhodium is used as a catalytic converter. **CAS** 20765-98-4.

ROSA DAMASCENA EXTRACT

Change of name as of January 2016; please refer to Rose absolute (Art. No. R-003).

Rose absolute

R-003 F

A fragrance used in various perfumes and for flavoring lozenges, ointments, toilet preparations, etc. The raw material for this product is made from an solvent extraction of the flowers. Contains among other substances Citronellol, Phenyl ethyl alcohol, Geraniol, Nerol, Eugenol. Also known as ROSA DAMASCENA EXTRACT, Rose oil.

Ruthenium

R-012 Ru 101.07 MET

Ruthenium is a chemical element and a rare transition metal, which is inert to most other chemicals. Ruthenium usually occurs as a minor component of platinum ores. Most ruthenium produced is used for wear-resistant electrical contacts and the production of thick-film resistors. A minor application of ruthenium is its use in some platinum alloys, and as a catalyst. It might also be found in dental implants. **CAS** 7440-18-8.

S

Sandalwood oil

S-009 F

A fragrance used in various perfumed products like soap, aftershave lotions, colognes and cosmetics. Also known as. SANTALUM ALBUM OIL. **PA. PT. PL. CAS** 8006-87-9.

SANTALUM ALBUM OIL

Change of name as of January 2016; please refer to Sandalwood oil (Art. No. S-014).

SHELLAC

S-015 C

Shellac is a resin secreted by the female lac bug, on trees in the forests of India and Thailand. It is processed and sold as dry flakes, which are dissolved in denatured alcohol to make liquid shellac, which is used as a brush-on colorant, food glaze and wood finish. Shellac is edible and it is used as a glazing agent on pills and candies in the form of pharmaceutical glaze. When used for this purpose, it has the food additive E number E904. **CAS** 9000-59-3.

SILVER NITRATE

S-007 AgNO₃ 169.89 MET

This hapten is a marker for contact allergy to **silver**. Used in photography, silver plating, coloring porcelain, manufacturing of mirrors, etching ivory, analytical reagent. Can also be used as astringent and antiseptic agent. **May cause gray-brown discoloration of the conjunctivae and black discoloration of the fingernails. CAS 7761-88-8.**

SODIUM BENZOATE

S-001 $C_7H_5NaO_2$ 144.11 B

A preservative especially used for food products (drinks, jams, jellies, pickles, syrups, etc.) Also commonly found in cosmetic and pharmaceutical products. **NICU. CAS** 532-32-1.

SODIUM LAURYL SULFATE

S-018 CH₃(CH₂)₁₁OSO₃Na 288.38 V

Described in the literature as a substance used as an irritant control in patch testing and works well in terms of reproducibility and a high number of patients are reacting to it. The chemical is an anionic surfactant used in many cleaning and hygiene products. The salt is an organosulfate consisting of a 12-carbon tail attached to a sulfate group, giving the material the amphiphilic properties required of a detergent. Being derived from inexpensive coconut and palm oils, it is a common component of many domestic cleaning products.

CAS 151-21-3

SODIUM METABISULFITE

S-011 Na₂S₂O₅ 190.1 C, H

Used as a food additive, mainly as a preservative and is sometimes identified as E223. As an additive, it may cause allergic reactions, particularly skin irritation e.g. excema; gastric irritation and asthma. It is present in many dilutable squashes. It is commonly used in homebrewing preparations to sanitize equipment. It is used as a cleaning agent for potable water reverse osmosis membranes in desalination systems. It is also used to remove chloramine from drinking water after treatment. In the brand Stump-Out, it is used in almost a pure form (98%) to cause degradation of lignin, creating pores for fuel adsorption, and consequently, ignition. **CAS** 7681-57-4.

Sodium-2-pyridinethiol-1-oxide

S-002 C₅H₄NOSNa 149.14 C, O

Abactericide used in cooling fluids and short term -in can- preservation of vinyl acetate latex, paints and synthetic fiber lubricants. Can also be found as a preservative for cosmetic rinse-off products. Also known as Sodium omadine. **CAS** 3811-73-2.

Sodium tetrachloropalladate(II) hydrate

S-017 $Cl_4Na_2Pd\cdot 3H_2O$ 348.20 DS, DMP, MET

This hapten is a marker for contact allergy to **palladium**. It is an inorganic compound used in among other things in chemical synthesis as a catalyst. It is present in many alloys containing palladium. **CAS** 13820-53-6.

Sodium tungstate dihydrate

S-019 Na₂WO₄ · 2H₂O 329.85 MET

In patch testing Sodium tungstate dihydrate is used to diagnose a contact allergy to **tungsten**. It can be found in incandescent light bulb filaments, X-ray tubes, and electrodes in welding, superalloys, and radiation shielding. About half is used in the form of tungsten carbide, WC. Tungsten's hardness and high density gives it military applications in penetrating projectiles. Tungsten compounds are also often used as industrial catalysts. In medicine, tungsten can be found in medical devices such as joint replacements, intravascular devices and dental implants. Tungsten is also used in jewelry. **CAS** 10213-10-2.

Art. No. Formula FW Series

Softisan 649

S-016 V

SOFTISAN 649 is a partial ester of diglycerin with medium chain fatty acids, isostearic acid, stearic acid, 12-hydroxystearic acid and adipic acid. Used in cosmetics in skin care, baby creams, decorative cosmetics and hair care products as lanolin substitute and as a

SORBIC ACID

cream base CAS 130905-60-1

S-003 C₆H₈O₂ 112.13 B, C, LU

A preservative (antifungal) found in foods like cheese syrup etc. and in cosmetic and pharmaceutical products. Also used in alkyd coatings and drying oils, adhesives, glues, inks, paints, varnishes, tanning agents, metalworking fluids. **Cross: potassium sorbate. ICU, NICU. CAS** 110-44-1.

SORBITAN OLEATE

S-004 C, LU

Monoester of oleic acid and hexitol anhydrides derived from sorbitol. An emulsifier in cosmetic and pharmaceutical ointments and creams. Also known as Sorbitan monooleate and Span 80. **Cross: SORBITAN SESQUIOLEATE. CAS** 1338-43-8.

SORBITAN SESQUIOLEATE

S-005 C, LU

Mixed ester of oleic acid and hexitol anhydrides derived from sorbitol. Used as emulsifier in cosmetic and pharmaceutical ointments and creams. **CAS** 8007-43-0.

Spiramycin base

S-012 $C_{43}H_{74}N_2O_{14}$ 842.51 CAD

Spiramycin is a macrolide antibiotic which is used to treat toxoplasmosis. Although routinely used in Europe, spiramycin is still considered an experimental drug in the United States. Used in Europe since 2000 year as "Rovamycine", produced by Rhone-Poulenc Rorer, France and Eczacibasi Ilae, Turkey. **CAS** 8025-81-8.

Art. No. Formula FW Series

STANNOUS CHLORIDE

S-013 SnCl. 189.60 MET

This hapten is a marker for contact allergy to **tin**. A solution of tin(II) chloride containing a little hydrochloric acid is used for the tin-plating of steel, in order to make tin cans. SnCl₂ also reduces quinones to hydroquinones. STANNOUS CHLORIDE is also added as a food additive with E number E512 to some canned and bottled foods, where it serves as a color-retention agent and antioxidant. It is used in production of ornamental glass called aurene glass. **CAS** 7772-99-8.

Stannous oxalate

Change of name as of January 2014; please refer to Tin(II)oxalate (Art. No. S-014).

STEARYL ALCOHOL

S-006 C₁₀H₂₀O 270.48 (

A lubricant and antifoam agent in cosmetic and pharmaceutical creams and in textile oils and finishes. **UCU. CAS** 112-92-5.

Styrax

S-008 F

Balsam obtained from the trunk of trees. Contains cinnamates, styrene, etc. Used in perfumery. Cross: Peru balsam, tincture of benzoin, dieythylstilbestrol. CAS 8046-19-3.

Sulfanilamide

S-010 $C_6H_8N_2O_2S$ 172.21 ME

A topical and vaginal antibiotic of sulfonamide type. Cross (photo): para group of compounds. May produce erythema multiforme like eruptions. PA. PL. CAS 63-74-1.

Т

Tanacetum vulgare extract

T-033 PL

A strongly aromatic weed growing in uncultivated areas, along roadsides, rivers etc. Grows all over Europe and in North America. Used as a herbal remedy, for seasoning and for making a tea. The oil is used as a vermifuge and in perfumery. Contains the sesquiterpene lactones arbusculin-A and tanacetin. Also known as Tanacetum Vulgare and Tansy. Also available as part of Mx-29A and Mx-29B. Cross: Other plants within the Compositae family.

Tantalum

T-047 Ta 180.95 MET

Tantalum is a chemical element. It is widely used as minor component in alloys. Its main use today is in tantalum capacitors in electronic equipment such as mobile phones, DVD players, video game systems and computers. It can also be used in medical implants and bone repair. **CAS** 7440-25-7.

Taraxacum officinale extract

T-032 PL

Taraxacum Officinale (Dandelion) is a weed that grows in open fields, on prairies, in garbage dumps, etc. and spread all over the world. It is a popular folk medicine plant (laxative, diuretic, tonic, etc.). Haptenic substance is taraxin acid glucoside. Also known as Taraxacum Officinale. Cross: Other plants within the Compositae family. May cause airborne contact dermatitis.

Tea tree oil oxidized

T-035 ICB, C

Oil from distilled leaves of Melaleuca Alternifolia. Pale yellowish green oil of a warm spicy aromatic terpenic odor. The oil has served as an antiseptic for many decades but is now also sold as a remedy for various skin and nail conditions. Also present in household products like cleansers, laundry agents and fabric softeners. Some Perfumery

Uses: Herbal; Nutmeg; Mint; Pine. Common haptens present are d-limonene, α -terpinene and aromadendrene. **May cause airborne contact dermatitis.**

Tetracaine hydrochloride

T-025 C₁₅H₂₅CIN₂O₂ 300.83 \

Used as topical and local anesthetic. Amethocaine. Also available as part of Mx-13, Mx-19 and Mx-31. **Cross: Amylocaine hydrochloride. CAS** 136-47-0.

3,3',4',5-Tetrachlorosalicylanilide

T-001 $C_{13}H_7CI_4NO_2$ 351.02 V

A bacteriostat found in shampoos, surgical and laundry soaps, polishes, rinses, deodorants etc. Also used in cooling fluids, textile finishes. Also known as Irgasan BS 200 and TCS. Cross (photo): other halogenated salicylanilides, hexachlorophene. PA. PT. PL. CAS 1154-59-2.

Tetraethylene glycol dimethacrylate

T-029 $C_{16}H_{26}O_{7}$ 330.37 MA

A methacrylate present in adhesives and constitutes the main component in polyethylene glycol dimethacrylate in Loctite anaerobic sealants. **CAS** 109-17-1.

Tetraethylthiuram disulfide

T-002 $C_{10}H_{20}N_2S_4$ 296.54 R

An accelerator, activator, stabilizer and vulcanizing agent for various rubber products. Also used as a fungicide, seed disinfectant, and alcohol deterrent. Also known as disulfiram, antabuse and TETD. Also available as part of Mx-01. **CAS** 97-77-8.

$\begin{array}{lll} \textbf{Tetrahydrofurfurylmethacrylate} & & \text{DS, MA, MN,} \\ \textbf{T-027} & & \textbf{C}_{9}\textbf{H}_{15}\textbf{O}_{3} & & 171.21 & & \text{DMP, DMS} \\ \end{array}$

A methacrylic component used in dental materials such as crown and bridge products. Also used as a component in artificial nails. **CAS** 2455-24-5.

Art. No. Formula FW Series

Tetramethylthiuram disulfide

T-005 $C_aH_{42}N_2S_4$ 240.44 R

A rubber accelerator and vulcanizer. Works as a fungicide, disinfectant for seed, bacteriostat in soap, animal repellent, etc. Also known as Thiram and TMTD. Also available as part of Mx-01. Cross: Tetraethylthiuram monosulfide, Tetraethylthiuram disulfide. CAS 137-26-8.

Tetramethylthiuram monosulfide

T-006 $C_6H_{12}N_2S_3$ 208.37 R

An accelerator and activator for natural rubber nitrile-butadiene and butyl rubber. Also known as TMTM. Also available as part of Mx-01. **CAS** 97-74-5.

THIMEROSAL

T-007 C₉H₉HgNaO₂S 404.84 ICB, C, O, LU

A preservative used in vaccines, antitoxins, skin testing antigens, antiseptics, eyedrop solutions, contact lens solutions, and cosmetic products like eye makeup. Also known as Merthiolate. **CAS** 54-64-8.

2,2'-THIOBIS(4-CHLOROPHENOL)

F-001 C₁₂H₈Cl₂O₂S 287.18

A fungicide especially used against Monosporium apiospermum. Used as a topical antifungal and antibacterial agent in hairdressings, antifungal creams, and ointments, also used as thermoplastic resin. **Cross (photo): Bithionol, hexachlorophene. PA. PT. PL. CAS** 97-24-5.

7

Thiourea

T-026 CH_4N_2S 76.12 R

A photographic fixing agent and stain remover. Can be used as a rubber accelerator and used in the manufacture of resins. Also used as an antioxidant in photocopy paper to prevent discoloration. **May cause airborne contact dermatitis. PA. CAS** 62-56-6.

Art. No.	Formula	FW	Series
Tin			
T-008	Sn	118.69	DS, MET

A metal used in tin plating, soldering and dental alloys, collapsible tubes. Used in the production of tin salts. **CAS** 7440-31-5.

Tin(II)oxalate

S-014 C₂O₄Sn 206.71 MET

This hapten is a marker for contact allergy to **tin**. Tin(II)oxalate is used as a catalyst (Esterification reactions) and in dyeing and printing textiles etc. **CAS** 814-94-8.

Tioconazole

T-034 $C_{16}H_{13}CI_3N_2OS$ 387.71 ME

Tioconazole is an antifungal medication of the Imidazole class used to treat infections caused by a fungus or yeast. Tioconazole ointments serve to treat women's vaginal yeast infections. Tioconazole topical (skin) preparations are also available for ringworm, jock itch, athlete's foot, and tinea versicolor or "sun fungus". **CAS** 65899-73-2.

Titanium

T-042 Ti 47.88 MET

A light, strong, lustrous, corrosion-resistant (including resistance to sea water and chlorine) transition metal with a grayish color. Can be alloyed with other elements such as iron, aluminium, Vanadium, molybdenum and others, to produce strong lightweight alloys for aerospace, military, industrial process (chemicals and petrochemicals, desalination plants, pulp and paper), automotive, agrifood, medical (prostheses, orthopaedic implants, dental implants), sporting goods, and other applications. **CAS** 7440-32-6.

TITANIUM DIOXIDE

T-040 O_2 Ti 79.87 MET

This hapten is a marker for contact allergy to **titanium**. Is the naturally occurring oxide of Titanium. When used as a pigment, it is called Titanium white or Pigment White 6. It is noteworthy for its wide range of applications, from paint to sunscreen to food colouring. Used as a white food colouring, it has E number E171. In cosmetic and skin

care products, TITANIUM DIOXIDE is used both as a pigment and a thickener. It is also used as a tattoo pigment and styptic pencils. This pigment is used extensively in plastics and other applications for its UV resistant properties where it acts as a UV absorber, efficiently transforming destructive UV light energy into heat. **CAS** 13463-67-7.

Titanium(III)nitride

T-039 TiN 61.89 MET

This hapten is a marker for contact allergy to **titanium**. This metal (sometimes known as Tinite) is an extremely hard, ceramic material, often used as a coating on Titanium alloy, steel, carbide, and aluminium components to improve the substrate's surface properties. The most common use for TiN coating is for edge retention and corrosion resistance on machine tooling, such as drill bits and milling cutters. Because of TiN's metallic gold color, it is used to coat costume jewelry and automotive trim for decorative purposes. TiN is also widely used as a top-layer coating, usually with nickel or chromium plated substrates, on consumer plumbing fixtures and door hardware. TiN is non-toxic, meets FDA guidelines and has seen use in medical devices and bio-implants, as well as aerospace and military applications. Coatings of TiN have also been used in implanted prostheses and in dental alloys. **CAS** 25583-20-4.

Titanium(IV)oxalate hydrate

T-041 $\operatorname{TiC_4O_9H_2} \cdot \operatorname{xH_2O} \quad 241.92 \cdot \operatorname{xH_2O} \quad \operatorname{MET}$

This hapten is a marker for contact allergy to **titanium**. Titanium oxalate could be used as a source for titanium in a process for preparing zinc-alloy-electroplated steel sheets excellent in corrosion resistance comprising electroplating steel sheets. Used in the preparation of a welding flux binder and welding flux comprising the reaction product of a hydrolyzed and polymerized organometallic compound such as metal esters and metal oxalates. A metal salt for testing of allergy to Titanium in dental alloys.

Tixocortol-21-pivalate S, ICB, IS, CS, T-031 $C_{3e}H_{3e}O_{\epsilon}S$ 462.35 LU

Atopical corticosteroid belonging to the group A (hydrocortisone) type of steroids used in nasal sprays for the treatment of rhinitis. Good marker for group A corticosteroid contact allergy. Also available as part of Mx-23. May cause airborne contact dermatitis. Cross: Budesonide,

Fluocinolone acetonide, Hydrocortisone, Hydrocortisone-17-butyrate, Prednisolone Acetate, Triamcinolone acetonide. CAS 55560-96-8.

Tobramycin

T-050 $C_{18}H_{37}N_5O_9$ 467.51 ME

This substance is an aminoglycoside antibiotic derived from Streptomyces tenebrarius and used to treat various types of bacterial infections, particularly Gram-negative infections, **CAS** 32986-56-4.

TOCOPHEROL

T-036 $C_{29}H_{50}O_2$ 430.71 ICB, C

DL-Alpha-tocopherol is the form of vitamin E that is preferentially absorbed and accumulated in humans. In general, food sources with the highest concentrations of vitamin E are vegetable oils, followed by nuts and seeds including whole grains. Although originally extracted from wheat germ oil, most natural vitamin E supplements are now derived from vegetable oils, usually soybean oil. Vitamin E is widely used as an inexpensive antioxidant in cosmetics and foods. Vitamin E containing products are commonly used in the belief that vitamin E is good for the skin; many cosmetics include it, often labeled as tocopherol acetate, tocopheryl linoleate or tocopheryl nicotinate. Some individuals experience allergic reactions to some tocopheryl esters or develop a rash and hives that may spread over the entire body from the use of topical products with alpha tocopheryl esters. CAS 10191-41-0.

TOCOPHERYL ACETATE

T-037 $C_{31}H_{52}O_3$ 472.75 C

Tocopheryl acetate, also known as vitamin E acetate, is a common vitamin supplement. it is the ester of acetic acid and tocopherol (vitamin E). It is often used in dermatological products such as skin creams. Tocopheryl acetate is used as an alternative to tocopherol itself because the phenolic hydroxyl group is blocked, providing a less acidic product. It is believed that the acetate is slowly hydrolyzed once it is absorbed into the skin, regenerating tocopherol and providing protection against the sun's ultraviolet rays. **CAS** 7695-91-2.

Tolu balsam absolute

B-025

Resinous material from Myroxylon samum used as perfume fixative, in soap perfumery. Used as vehicle for cough mixtures, expectorant, antiseptic. Also known as Balsam Tolu, MYROXYLON BALSAMUM RESIN. Cross: Peru balsam, benzylbenzoate. CAS 9000-64-0.

TOLUENE-2,5-DIAMINE

T-049 $C_7H_{10}N_2$ 122.17 H

This substance is used in hair dye products. CAS 95-70-5.

TOLUENE-2,5-DIAMINE SULFATE

D-002 $C_7H_{10}N_2H_2SO_4$ 220.25 H

The primary intermediate in various permanent hair dyes Also known as 4-Toluenediamine, 2,5-Diaminotoluene sulfate and PTD. **CAS** 615-50-9.

Toluene-2,4-diisocyanate

T-009 $C_9H_6N_2O_2$ 174.15 I

Used in the production of polyurethane foams, elastomers, adhesives, printing plates, etc. Also known as TDI. **May cause allergic asthma. CAS** 584-84-9.

Toluenesulfonamide formaldehyde resin

T-010 ICB, IS, PG

A modifier and adhesion promotor used for film forming natural and synthetic resins. Occurs in vinyl lacquers, nitrocellulose compositions (e.g., nail lacquers), PVA adhesives, acrylics. **CAS** 1338-51-8.

4-Tolyldiethanolamine

T-011 C₁₁H₁₇NO₂ 195.26 DS

An amine accelerator for the polymerization of e.g. dental acrylic composite restorative materials. **CAS** 3077-12-1.

Treemoss absolute

E-026 F

This is a chemical extract of the treemoss plant Evernia Furfuracea and oak moss. Used in perfumes, cosmetics, moisturizers, fragrance for men, body powder, sunscreen products, lipsticks, shampoos and soaps among others. The raw material for this product is made from an hexane extraction of the moss giving a concrete, then the absolute is obtained by extrating the concrete with ethanol. The moss used is Pseudevernia furfuracea & usnea barbata. Also known as Evernia furfuracea. **NOTE: The preparation is based on the raw material of treemoss absolute that has not been subject to chemical reduction of atranol and chloroatranol. CAS** 94994-93-1 and 68648-41-9.

Triamcinolone acetonide

T-030 C₂₄H₂₄FO₆ 434.49 CS

A topical and systemic corticosteroid belonging to the group B (triamcinolone acetonide) type of steroids. Cross: Budesonide, Fluocinolone acetonide, Hydrocortisone, Hydrocortisone-17-butyrate, Prednisolone Acetate, Tixocortol-21-Pivalate. CAS 76-25-5.

3,4,5-Tribromosalicylanilide (TBS)

T-012 C₁₃H₈Br₃NO₂ 449.96 ⁷

Abacteriostatic agent found in detergents and soaps, disinfectants, pet flea powders. Also known as Tribromsalan. Cross (photo): Bithionol and other halogenated salicylanilides, TRICLOCARBAN, hexachlorophene, fentichlor. PA, PT. CAS 87-10-5.

TRICLOCARBAN

T-013 $C_{13}H_9CI_3N_2O$ 315.59 O, EPE

a bacteriostat and antiseptic agent found in soaps and other cleansing compositions. Used as a disinfectant. Also known as 3,4,4-Trichlorocarbanilide and TCC. Cross (photo): bithionol and other halogenated salicylanilides. PA. PT. May cause pigmentation of the face. CAS 101-20-2.

Art. No.	Formula	FW	Series	
TRICLOSAN				
T-014	$C_{12H_7Cl_3O_2}$	289.53	C, O, EPE	

A preservative found in cosmetic products, soaps, detergents, shampoos, bath additives, deodorants, foot powders and sprays, disposable paper products, antiodor insoles and hose, laundry products. Also used in the treatment of textiles and as antifungal agent in PVC wetroom carpets. Also known as Irgasan DP 300. **PA. CAS** 3380-34-5.

Tricresyl phosphate

T-015 $C_{21}H_{21}O_4P$ 368.36 P, PG

A plasticizer found in vinyl plastics, spectacle frames. Used as a flame retardant and additive to extreme pressure lubricants. Can also be used as solvent for nitrocellulose, etc. **CAS** 1330-78-5.

TRIETHANOLAMINE

T-016 C₆H₁₅NO₃ 149.19 ICB, C, O, LU

A surface-active agent found in soaps, shampoos, creams, waxes, cutting oils etc. Used in making emulsions with mineral and vegetable oils. **CAS** 102-71-6.

Triethylene glycol diacrylate

T-017 $C_{12}H_{18}O_6$ 258.28 MN, MP

A cross-linking acrylate monomer used in coatings, adhesives, and in printing plates of photoprepolymer type. Also known as TEGDA. **CAS** 1680-21-3.

A methacrylic monomer used as cross-linking agent for adhesives and dental restorative materials. Also know as TEGDMA and TREGDMA. **CAS** 109-16-0

Art. No.	Formula	FW	Series	
Triethylenetetramine				
T-019	$C_6H_{18}N_4$	146.23	E	

Used as epoxy curing agent, lubricating oil additive, chelating and analytical agent. Also known as TETA. **CAS** 112-24-3.

Triglycidyl isocyanurate

T-028 C₁₂H₁₅N₃O₆ 297.27 PG

Trifunctional epoxy compound used as cross-linker in heat-cured polyester paints used for laminated sheetings, printed circuits, tools, inks, adhesives, lining materials etc. Also known as TGIC. **May cause airborne contact dermatitis. CAS** 2451-62-9.

2,2,4-Trimethyl-1,2-dihydroquinoline

T-020 $(C_{12}H_{15}N)_n$ R

An antioxidant used in rubber and plastic materials. Also used in hydraulic fluids and greases. Also known as Flectol H and Agerite resin D. **CAS** 26780-96-1

Trimethylolpropane triacrylate

T-021

 $C_{15}H_{20}O_6$

296.31

MN, MP

A triacrylate used in UV-curable lithographic inks, varnishes, artificial nails, wood finish solder, and etch resists in the electronics industry. Also known as TMPTA. **CAS** 15625-89-5.

Trimethylolpropane triglycidyl ether

T-038

 $C_{15}H_{25}O_6$

301.16

Ε

A trifunctional glycidyl ether of trimethylolpropane. It is used as a general purpose diluent to reduce the viscosity of epoxy resins and provides excellent crosslinking with good reactivity used in adhesives and coatings. **CAS** 30499-70-8.

3,4,4-Trimethyl-oxazolidine

Comp. in D-015 C₆H₁₅NO

115.18

0

Component in Bioban CS 1135, a preservative (2.5%) used in latex paints, resin emulsions, and cooling fluids. D-015: **Bioban CS 1135:** also contains 4,4-Dimethyloxazolidine. Neither of the substances

Art. No. **Formula** Series FW

can be ordered separately.

2,4,6-Tris(dimethylaminomethyl)phenol

T-048

C₄-H₀-N₀O

265 39

This chemical is a tertiary amine activator for epoxy resins. Used in coatings, flooring, adhesives, castings, potting and encapsulation. CAS 90-72-2

TRIS(HYDROXYMETHYL)NITROMETHANE

H-015

C,H,NO,

151.12

A bactericide and slimicide used in cooling fluids, paper and pulp industry. Also used as curing agent for certain adhesives. Also known as Tris Nitro and 2-Hydroxymethyl-2-nitro-1,3-propanediol. CAS 126-11-4

Triphenyl phosphate

T-022

 $C_{40}H_{45}O_{4}P$

326.28

PG

A plasticizer in plastics (e.g., cellulose acetate) lacquers, varnishes, etc. Also used in impregnating roofing paper. CAS 115-86-6.

Tri(propylene glycol) diacrylate

T-023

C, H, O,

300.36

MP

A diacrylate monomer for use in UV-curable flexographic and silk screen inks, wood-finish varnishes, coatings on plastics, etc. Also known as TPGDA, CAS 42978-66-5.

Tungsten

T-043

W

183.84

MET

Tungsten, also known as Wolfram, is a metal with a wide range of uses, the largest of which is as Tungsten carbide (W2C, WC) in cemented carbides. Cemented carbides (also called hardmetals) are wear-resistant materials used by the metalworking, mining, petroleum and construction industries. Tungsten is widely used in light bulb and vacuum tube filaments, as well as electrodes, because it can be drawn into very thin wire with a high melting point. Tungsten is used in material for implanted electrodes and in orthopaedic and dental implants as well as in coils to treat intracranial aneurysms. CAS 7440-33-7

Turpentine oil oxidized

T-024 C

Mixture of hydroperoxides of terpenes found in oil of turpentine. Main hapten is the hydroperoxide of δ -3-carene. Used in solvents or lacquers for printing, etching and art painting. Found in sealing wax, coolants, tapes, polish, metal cleaners, deodorizers, paints, cosmetics like soaps and bath oils. Cross: Chrysanthemum, pyrethrin. May cause airborne contact dermatitis.



Urea formaldehyde resin

U-001 $C_3H_8N_2O_3$ 120.11 TF

A textile finish resin of formaldehyde type for treatment of, e.g., cotton and rayon materials. Also used in wood glue industry. **CAS** 9011-05-6.

Urethane diacrylate, aliphatic

U-002 1500 MP

An UV-reactive prepolymer based on an acrylated aliphatic isocyanate. Used in curable coatings, inks, and varnishes.

Urethane diacrylate, aromatic

U-003 1000 MP

An UV-reactive prepolymer based on an acrylated aromatic isocyanate. Used in curable coatings, inks and varnishes. Also known as Ebecryl 220. Contains also pentaerythritoltriacrylate and pentaerythritoltetraacrylate.

Urethane dimethacrylate

U-004 $C_{23}H_{38}N_2O_8$ 470.56 DS, MA

A methacrylate based on a methacrylated aliphatic isocyanate. Used in dental bonding agents, resin veneering, and restorative materials Also known as UDMA. **CAS** 72869-86-4.

Art. No.	Formula	FW	Series	
(+)-Usnic acid				
U-005	C ₁₈ H ₁₆ O ₇	344.31	PL	

An antibacterial substance found in many lichens. Occurs in oak moss absolute which is used as fragrance. Used as a preservative in deodorants, antiacne formulations, and as antibiotic for topical application. Also available as part of Mx-15. Cross: oak moss. May cause airborne contact dermatitis. CAS 7562-61-0



Vanadium

V-002 V 50.94 MET

Vanadium is soft and ductile element, which occurs naturally in certain minerals and is used mainly to produce certain alloys. Approximately 80% of Vanadium produced is used as ferrovanadium or as a steel additive. Other uses: In such alloys as specialty stainless steel, e.g. for use in surgical instruments and tools. Such tools are rust resistant and high speed tool steels. Mixed with aluminium in Titanium alloys used in jet engines and high-speed airframes. Used in dental alloys. Vanadium steel alloys are used in axles, crankshafts, gears, and other critical components. It is an important carbide stabilizer in making steels. Vanadium foil is used in cladding Titanium to steel. **CAS** 7440-62-2.

Vanadium(III)chloride

V-003 VCI₃ 157.30 MET

This hapten is a marker for contact allergy to **vanadium**. Used as a catalyst in the polymerization of olefins, epoxy, phenolic and silicone resins. For testing purpose this is also used to test allergy for Vanadium. Vanadium is used in applications for bicycle parts, glass coatings and jewelry. It can also be found in dental implants. **CAS** 7718-98-1.

Vanadium(V)oxide

V-005 V_2O_5 181.88 MET

This hapten is a marker for contact allergy to **vanadium**. A principal precursor to alloys of vanadium and is a widely used as an industrial catalyst. It can also be found in air care products, floor coverings,

paints and coatings. For testing purpose this is also used to test allergy for Vanadium. Vanadium is used in applications for bicycle parts, glass coatings and jewelry. It can also be found in dental implants. **CAS** 1314-62-1.

Vancomycin hydrochloride

V-004 $C_{66}H_{75}C_{12}N_9O_{24}\cdot HCI$ 1485.71 ME

This substance is an antibiotic used to treat a number of bacterial infections. It is used as a first-line treatment for complicated skin infections, bloodstream infections, endocarditis, bone and joint infections, and meningitis caused by methicillin-resistant S. aureus. **CAS** 1404-93-9.

VANILLIN

V-001 C₈H₈O₃ 152.14 B, F

A flavoring agent found in beverages, confectionery, foods, galenicals. Used in perfumery, pharmaceuticals and also as chemical reagent. Also known as Vanillin. Cross: COUMARIN, Propolis. ICU. CAS 121-33-5.



X

m-Xylylenediamine

X-001 C_eH₄₂N₂ 136.19 E

The chemical is an intermediate in the production of epoxy curing agents, polyamides and polyurethanes. Due to the chemical binding processes that occur during curing, finished products do not contain the chemical. The substance is also not present in the industrial intermediates used in the production of polyamides and polyurethanes, but a few percent is present in the epoxy curing agent. The great majority of the epoxy curing agent is assumed to be used by industrial or professional users. Greater than 99.9% of the substance is used in three categories: polyamide (major), epoxy curing agent,

and polyurethane production. Also known as 1,3-bis(aminomethyl) benzene. **CAS** 1477-55-0.



Ylang ylang oil

Y-001 ICB, F

This substance is used in soap perfumes and in general perfumery as a floral additive of extremely versatile application. It blends with almost any other floral natural or synthetic material and gives good effects in a concentration of 0.5% up to about 5% of the perfume base. The fragrance is also used in washing detergents, hair products and skin powder. The oil is steam distilled from the flowers of Cananga odorota genuine. Fractions of the oil are collected over the course of distillation to obtain different grades. The first and finest fraction is called ylang-ylang oil. The oil has a very sweet tropical floral scent, smells like a combination of Jasmine and bitter almond- peppermint. Main chemical components are Linalool, p-Cresyl methyl ether, beta-Caryophyllene, Geranyl acetate, Methyl benzoate, Benzyl benzoate, Farnesol, Geraniol, Isoeugenol, Eugenol and Citral. Also known as CANANGA ODORATA OIL. Cross: Benzyl salicylate, geranial. May cause pigmentation of the face. CAS 8006-81-3.

Z

Zinc

Z-001 Zn 65.38 MET

A metal used for galvanizing sheet iron. Found as an ingredient in alloys (bronze, brass, etc.), protective coatings for other metals, household utensils, etc. **CAS** 7440-66-6.

ZINC CHLORIDE

Z-007 Cl₂Zn 136.28 MET

This hapten is a marker for contact allergy to **zinc**. This chemical is used as a deodorant and can also be used as a wood preservative. Zinc metal is included in most single tablet over-the-counter daily

vitamin and mineral supplements. Zinc is the fourth most common metal in use, trailing only iron, aluminium, and copper in annual production. Zinc is used to galvanize steel to prevent corrosion. Zinc is used to Parkerize steel to prevent rust and corrosion and used in alloys such as brass, nickel silver, dental alloys, typewriter metal and various soldering formulas. Zinc is the primary metal used in making some coins and used in die casting notably in the automobile industry. Zinc is used as part of the containers of batteries. The most widespread such use is as the anode in alkaline batteries.

ZINC DIBUTYLDITHIOCARBAMATE

Z-002 C₄₀H₂₀N₂S₄Zn 474.14

An activator, antidegradant and accelerator for natural rubber, butadiene, styrene-butadiene, nitrile-butadiene, butyl rubber, and ethylene-propylene-diene terpolymers. Also known as ZBC. Also available as part of Mx-06. **CAS** 136-23-2.

R

Zinc diethyldithiocarbamate

Z-003 $C_{10}H_{20}N_2S_4Zn$ 361.91 R

An activator and accelerator for natural rubber, styrene-butadiene, nitrile-butadiene, and butyl rubber. Also known as ZDC. Also available as part of Mx-06. **ICU**. **CAS** 14324-55-1.

Zinc dimethyldithiocarbamate

Z-004 $C_6H_{12}N_2S_4Zn$ 305.82 R

An activator and accelerator for natural rubber, styrene-butadiene, and butyl rubber. An agricultural fungicide used for seeds, plants, and fruit. Also known as Ziram. **CAS** 137-30-4.

Zinc ethylenebis-(dithiocarbamate) (Zineb)

Z-005 $C_4H_8N_3S_4Zn$ 275.75 C_4

A fungicide used in cooling fluids and as pesticide for seeds, plants, and fruit. Also known as Zineb. **CAS** 12122-67-7.

 Art. No.
 Formula
 FW
 Series

 ZINC PYRITHIONE

 Z-006
 C₁₀H₈N₂S₂O₃Zn
 317.70
 H

An antifungal, antibacterial and antiseborrheic agent used in many shampoos and hair creams. Also known as Zinc omadine. **Reactions may lead to photosensitive eczema and actinic reticuloid syndrome. CAS** 13463-41-7.

Zirconium(IV)chloride

Z-008 Cl₄Zr 233.03 MET

This hapten is a marker for contact allergy to **zirconium**. This metal salt is a white high-melting solid which hydrolyzes rapidly in humid air. It is used to make water-repellent textiles and can also be used in implants. **CAS** 10026-11-6

ZIRCONIUM DIOXIDE

Z-009 ZrO₂ 123.22 MET

This hapten is a marker for contact allergy to zirconium. This chemical is a ceramic material and the most natural form of the element Zirconium. It is found in insulation, abrasives, enamels, ceramic glazes, and as diamond substitute in jewelry. It is also used in the construction of dental restorations such as crowns and bridges. It can also be used as radio-opaque material in bone cement. In orthopedic surgery bone cement is used to fix metal implants such as hip- and knee replacements. **CAS** 1314-23-4.

Catalogue amendments January 2016

New hap	tens	In Series
A-038	ALUMINUM HYDROXIDE 10.0% pet	MET-48
A-039	4-AMINO-2-HYDROXYTOLUENE 1.0% pe	t H-31
B-044	Beryllium(II)sulfate tetrahydrate 1.0% pet	MET-54
C-052	CYSTEAMINE HCL 0.5% pet	H-32
C-053	Cefuroxime sodium 10.0% pet	CAD-31
C-054	Cefixime trihydrate 10.0% pet	CAD-32
C-055	Cefpodoxime proxetil 10.0% pet	CAD-34
E-027	ETHYLHEXYLGLYCERIN 5.0% pet	C-58
G-007	Gallium(III)oxide 1.0% pet	MET-44
H-031B	Hydroperoxides of Linalool 0.5% pet	F-46
H-032B	Hydroperoxides of Limonene 0.2% pet	F-47
H-033	HYDROXYETHYL-p-PHENYLENEDIAMIN	E
	SULFATE 2.0% pet	H-34
I-018	Imipenem monohydrate 10.0% pet	CAD-33
L-009	Lamotrigine 10.0% pet	CAD-30
M-038	Molybdenum(V)chloride 0.5% pet	MET-49
M-039	2-METHYLRESORCINOL 1.0% pet	H-33
M-040	p-METHYLAMINOPHENOL 1.0% pet	H-35
Mx-31		ational series
N-008	Niobium(V)chloride 0.2% pet	MET-50
P-039	Pramoxine hydrochloride 2.0% pet	ME-18
P-040	Potassium clavulanate 10.0%	CAD-35
R-012	Ruthenium 0.1% pet	MET-45
R-013	Rhodium(III)chloride hydrate 2.0% pet	MET-53
S-019	Sodium tungstate dihydrate 2.0% aq	MET-46
T-047	Tantalum 1.0% pet	MET-51
T-048	2,4,6-Tris(dimethylaminomethyl)phenol 0.5% p	
T-049	TOLUENE-2,5-DIAMINE 1.0% pet	H-30
T-050	Tobramycin 20.0% pet	ME-15
V-004	Vancomycin hydrochloride 10.0% aq	ME-16
V-005	Vanadium(V)oxide 10.0% pet	MET-47
Z-009	ZIRCONIUM DIOXIDE 0.1% pet	MET-52

Test series Amendment

C-1000	No 58 ETHYLHEXYLGLYCERIN 5.0% pet (E-027)
	added.
CAD-1000	No 30 Lamotrigine 10 0% pet (L-009) added

CAD-1000 CAD-1000 CAD-1000 CAD-1000 CAD-1000 CS-1000	No 31 Cefuroxime sodium 10.0% pet (C-053) added. No 32 Cefixime trihydrate 10.0% pet (C-054) added. No 33 Imipenem monohydrate 10.0% pet (I-018) added. No 34 Cefpodoxime proxetil 10.0% pet (C-055) added. No 35 Potassium clavulanate 10.0% pet (P-040) added. No 10 Betamethasone 17,21-dipropionate 1.0% pet (B-042) added.
CS-1000	No 11 Methylprednisolone aceponate 1.0% pet (M-036) added.
E-1000	No 15 2,4,6-Tris(dimethylaminomethyl)phenol 0.5% pet (T-048) added.
F-1000	No 46 Hydroperoxides of Linalool 0.5% pet (H-031B) added.
F-1000	No 47 Hydroperoxides of Limonene 0.2% pet (H-032B) added.
H-1000	No 30 TOLUENE-2,5-DIAMINE 1.0% pet (T-049) added.
H-1000	No 31 4-AMINO-2-HYDROXYTOLUENE 1.0% pet (A-039) added.
H-1000	No 32 CYSTEAMINE HCL 0.5% pet (C-052) added
H-1000	No 33 2-METHYLRESORCINOL 1.0% pet (M-039) added.
H-1000	No 34 HYDROXYETHYL-p-PHENYLENEDIAMINE SULFATE 2.0% pet (H-033) added.
H-1000	No 35 p-METHYLAMINOPHENOL 1.0% pet (M-040) added.
ME-1000	No 15 Tobramycin 20.0% pet (T-050) added.
ME-1000	No 16 Vancomycin hydrochloride 10.0% aq
ME-1000	(V-004) added. No 17 Bufexamac 5.0% pet (B-043) added.
ME-1000	No 18 Pramoxine hydrochloride 2.0% pet (P-039) added.
MET-1000	No 44 Gallium(III)oxide 1.0% pet (G-007) added.
MET-1000	No 45 Ruthenium 0.1% pet (R-012) added.
MET-1000	No 46 Sodium tungstate dihydrate 2.0% aq
MET-1000 MET-1000	(S-019) added. No 47 Vanadium(V)oxide 10.0% pet (V-005) added. No 48 ALUMINUM HYDROXIDE 10.0% pet (A-038) added.
MET-1000	No 49 Molybdenum(V)chloride 0.5% pet (M-038) added.

MET-1000	No 50 Niobium(V)chloride 0.2% pet (N-008) added.
MET-1000	No 51 Tantalum 1.0% pet (T-047) added.
MET-1000	No 52 ZIRCONIUM DIOXIDE 0.1% pet (Z-009) added.
MET-1000	No 53 Rhodium(III)chloride hydrate 2.0% pet
	(R-013) added.
MET-1000 added	No 54 Beryllium(II)sulfate tetrahydrate 1.0% pet (B-044)

Deleted haptensIn SeriesR-006BReactive Blue 238 1.0% petTF-24

Catalogue amendments January 2017

Test series	Amendment
CS-1000	No 12 Corticosteroid mix 2.1% pet (Mx-23) added.
F-1000	No 48 Styrax 2.0% pet (S-008) added.
H-1000	No 36 CETRIMONIUM BROMIDE 0.5% pet (C-050)
	added.
MET-1000	No 6 Aluminium 100% (A-021) deleted.
SA-1000	No 3 Dermatophagoides mix (Pteronyssinus/
	Pharinae 50/50) 30% pet (Mx-21C) deleted, see V-37.
SA-1000	No 4 Corticosteroid mix 2.1% pet (Mx-23) deleted,
	see CS-12.
V-1000	No 4 OLEA EUROPAEA OIL 100% (O-006) deleted.
V-1000	No 44 Styrax 2.0% pet (S-008) deleted, see F-48.
V-1000	No 37 Dermatophagoides mix (Pteronyssinus/
	Pharinae 50/50) 30% pet (Mx-21C) added.
V-1000	Renumbering of the whole serie, see page 76 for
	the new composition.

Deleted haptens		In series
A-021	Aluminium 100%	MET-6
O-006	OLEA EUROPAEA OIL 100%	V-4
P-019C	PROPYLENE GLYCOL 10.0% ag	_

Catalogue amendments January 2018

Cutulog	ac unicitamento juntua	<i>y</i> = 010	
New haptens In Series			
C-009D	METHYLISOTHIAZOLINONE+ METHYLCHLOROISOTHIAZOLINONE 0.02% pet	V-38	
H-034	Hydrocortisone-21-acetate 1.0% pet	CS-13	
M-035D	METHYLISOTHIAZOLINONE 0.2% pet	V-39	
P-041	Phenylbutazone 10.0% pet	ME-19	
Deleted haptens In series			
I-018	Imipenem monohydrate 10.0% pet	CAD-33	
P-031	Penicillin G, potassium salt 10% pet	CAD-1	
Test series Amendment			
ICB-1000	No 17 N-Isopropyl-N-phenyl-4-phenylene	diamine	
	(IPPD) 0.1% pet (I-004) changed to		
	1,3-Diphenylguanidine 1.0% pet (D-022).		
ICB-1000	No 44 Tixocortol-21-pivalate changes in concentration		
ICB-1000	from 0.1% pet (T-031B) to 1.0% pet (T-031A).		
	No 45 Budesonide changes in concentration from 0.01% pet (B-033B) to 0.1% pet (B-033A).		
ICB-1000	No 48 Hydrocortisone-17-butyrate 1.0% pet (H-021B)		
102 1000	changed to Textile dye mix 6.6% pet (Mx-		
ICB-1000	No 60 TRICLOSAN 2.0% pet (T-014) changed to		
	Hydroperoxides of Limonene 0.3% pet (H		
ICB-1000	No 74 BENZALKONIUM CHLORIDE 0.1%		
	changed to Hydroperoxides of Linalool 1.0% pet		
ICB 1000	(H-031A). No 80 Dimethylol dihydroxy ethylene urea 4.5% aq		
ICB-1000	(D-012) changed to OLEAMIDOPROPYL		
	DIMETHYLAMINE 0.1% aq (O-005).		
ICB-1000	No 81 Hydroperoxides of Linalool 1.0% p	et (H-031A)	
	deleted see ICB-74.		
ICB-1000	No 82 Hydroperoxides of Limonene 0.3%	pet	
	(H-032A) deleted see ICB-60.		
ICB-1000	No 83 Textile dye mix 6.6% pet (Mx-30) d	eleted	
B-1000	see ICB-48. No 20 Gallate mix 1.5% pet (Mx-28) adde	ad.	
D-1000	INO 20 Gallate IIIIX 1.5% pet (IVIX-20) adde	u.	

C-1000	No 59 SODIUM METABISULFITE 1.0% pet (S-011) added.
C-1000	No 60 Gallate mix 1.5% pet (Mx-28) added.
CAD-1000	No 1 Penicillin G, potassium salt 10% pet (P-031) deleted.
CAD-1000	No 33 Imipenem monohydrate 10.0% pet (I-018) deleted.
CS-1000	No 13 Hydrocortisone-21-acetate 1.0% pet (H-034) added.
DS-1000	No 32 CARVONE 5.0% pet (C-035) added.
DS-1000	No 33 2,2-bis(4-(2-Methacryl-oxyethoxy)phenyl)-propane (M-006B) 2.0% pet added.
DS-1000	No 34 GLUTARAL (G-003A) 0.2% pet added.
H-1000	No 37 SODIUM METABISULFITE 1.0% pet (S-011) added.
ME-1000	No 19 Phenylbutazone 10.0% pet (P-041) added.
V-1000	No 38 METHYLISOTHIAZOLINONE+
V-1000	METHYLCHLOROISOTHIAZOLINONE 0.02% pet (C-009D) added. No 39 METHYLISOTHIAZOLINONE 0.2% pet
	(M-035D) added.

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