

President's message

Thanks to the tireless work performed by medical professionals, more patients than ever are receiving a diagnosis based on the results of comprehensive patch testing, not only in the developed countries but all over the world.

While I am thankful for this continuing expansion, I am concerned that future regulation could restrict the development of patch test haptens. As a manufacturer of patch test haptens and an advocate for the advancement of patch testing, it is critical that any regulation not restrict the availability of patch test haptens for use in daily Contact Allergy screening, but also not limit our ability to provide specialized haptens for research purposes. As new culprit haptens are being discovered each year, our ability to develop new standardized patch test haptens is critical if we are to maintain the highest relevancy in contact allergy diagnosis and make certain that patients are not left undiagnosed.

The European Union is currently in the process of harmonizing hapten regulations among its member states. Input has been provided by medical professionals and industry representatives, including Chemotechnique, with the expectation that any final regulations will support our ability to continue to provide not only regular haptens but also customized haptens based on expert research.

It is my hope that any proposed regulations meet both the obligations of the regulator, safety and efficacy, and the needs of the manufacturer, production of quality haptens, which in combination will meet the needs of patch testing physicians and improve their patient's quality of life.

Sincerely.

Bo Niklasson

CEO and President
Chemotechnique MB Diagnostics AB





Patch Test Products authorized by the ICDRG Distributed Worldwide



Production: Chemotechnique MB Diagnostics AB Printing: Exakta 2019 Revised: November 2019 © 2019 Chemotechnique MB Diagnostics AB

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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 Topical 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



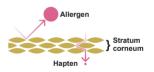
Contact Allergy & Allergic Contact Dermatitis (ACD)



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; **Topical Haptens** and **Patch Test Units.**

Topical Haptens



The hapten preparations used in patch testing should ideally be specifically developed for patch testing purposes.

The Topical 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.

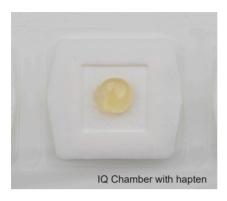
Patch Test Units



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

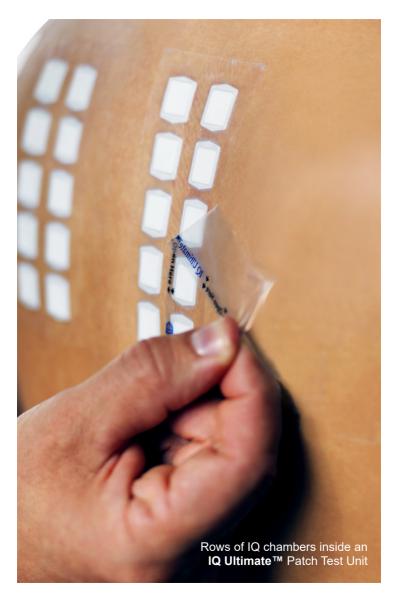


The integrated filter paper facilitates easy handling of liquid haptens.

IQ Chamber:

Size:

Inside area: 64 mm² Chamber volume: 32 µl



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 increases 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.

Superior adhesion



IQ Ultimate[™] is the perfect patch test choicein warm climate due to its superior

adhesion to the skin.

Highly elastic



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

lifestyle during the test period.

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 a feature with 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.



Plate The Reading 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 accordance with the definition recommended by the International Contact **Dermatitis Research Group** (ICDRG).

Spot Tests



The Chemo Skin Markers are tools specifically designed for patch test site marking.

Chemo Skin Marker™ - Regular (SM)



In addition to gentian violet, this marker contain silver nitrate for prolonged staining of the skin. The marker tip produces

Chemo Skin Marker™ - Slim (SMS)

both broad and precise line widths.



The Chemo Skin Marker -Slim™ is a compact version of Chemo Skin Marker -**Regular**[™] for precise marking.

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 Skin Marker™

Volume:

Regular: 4 ml Slim / UV: 1.5 ml



Chemo Nickel Test™ (NT) and Chemo Cobalt Test™ (CoT) are one-component solutions that enable easy detection of free nickel or cobalt in metallic objects.



Contained in re-sealable packaging, the test solutions

are conveniently stored alongside provided swabs.

Rub & Compare



Rub a moistened cotton swab on the suspected metal object and

compare the result with the reference color.

Chemo Spot Tests

Volume:

8 ml (50 tests+)

Reagents:

Nickel: Dimethylglyoxime Cobalt: Nitroso-R salt

Topical Haptens



Chemotechnique offers the widest range of commercially available high quality Topical 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 Topical 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 Topical 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 **chemotechnique.se** for current composition is advised.

Affected series are marked with:

Topical Haptens:

Topical 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 cooperation 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:

mitornational Bacomic Corico.	
European Baseline	(S-1000)
European Comprehensive Baseline	(ECB-1000)
International (Standard) Baseline	
International Comprehensive Baseline	(ICB-1000)
Latin American Baseline	(LA-1000)
North American Baseline	(NA-1000)
North American Extended	(NAE-65)
North American Comprehensive	(NAC-80)
American Core Series	(ÀC-1000)

National Baseline Series:

National Daseille Series.	
Australian Baseline	
Belgian Baseline	(BS-1000)
British Baseline	(GB-1000)
Chinese Baseline	(CB-1000)
Finnish Baseline	(FIN-1000)
Hungarian Baseline	(HU-1000)
Indian Baseline	
talian Baseline	
Rorean Baseline	(KOR-1000)
Portuguese Baseline	(PB-1000)
Polish Baseline	(POL-1000)
Spanish Baseline	(SB-1000)
Swedish Baseline	(SS-1000)

Tailored testing:

All Topical Haptens produced by Chemotechnique can be ordered individually, making customization of series possible. This is ideal when modifying a 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:

mitorinational concorning contoon	
Bakery	(B-1000)
Corticosteroid	(CS-1000)
Cosmetic	
Cutaneous Adverse Drug Reaction	(CAD-1000)
Dental Screening	(DS-1000)
Dental Materials - Patients	(DMP-1000)
Dental Materials - Staff	(DMS-1000)
• Epoxy	
European Photopatch Baseline	(EP-1000)
European Photopatch Extended	(EDE 1000)
• Erggrango	(E 1000)
• Fragrance	
Hairdressing	
Isocyanate	
• Leg Ulcer	
Medicament	
Metal	(ME I-1000)
• (Meth) Acrylate - Adhesives, Dental & Other	(MA-1000)
(Meth) Acrylate - Artificial Nails	(MN-1000)
(Meth) Acrylate - Printing	(MP-1000)
Oil & Cooling Fluid	(O-1000)
• Plant	
Plastic & Glue	(PG-1000)
Rubber Additives	
• Shoe	
Sunscreen	(/
Textile Colors & Finish	
10/10/0 00/0/0 4 1 1110/1	(11 - 1000)

National Screening Series:

1	🗨 Indian Footwear	(INF-1000)
1	Indian Cosmetic & Fragrance	(INC-1000)
1	Rorth American Photopatch(NAP-1000)

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 (Comprehensive) Baseline / (S-1000, ECB-1000) p. 33 p.35



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 Comprehensive Series includes additional haptens for routine screening as recommended by the EBS branch of the European Society of Contact Dermatitis (ESCD)

International Baseline (IS-1000) p. 37



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. 39



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. 43



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. 45/ p. 48/ p. 51



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.

American Core Series (AC-1000) p. 54



This Baseline Series is a selection of haptens recommended by the American Contact Dermatits Society (ACDS).

Hapten Series

International Screening Series

Bakery (B-1000) p. 58



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

Corticosteroid (CS-1000) p. 58



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

Cosmetic (C-1000) p. 59



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. 61



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. 62



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. 63



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. 64



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. 64



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. 64



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. 65



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. 66



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

Hairdressing (H-1000) p. 68



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. 69



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. 69



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. 70



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

Metal (MET-1000) p. 71



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. 72



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

Hapten Series

(Meth) Acrylate - Nails Artificial Series (MN-1000) p. 73



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

(Meth) Acrylate - Printing series (MP-1000) p. 73



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

Oil & Cooling Fluid (O-1000) p. 74



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

Plant (PL-1000) p. 75



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. 73



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. 74



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

Shoe (SH-1000) p. 78



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. 78



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

Textile Colors & Finish (TF-1000) p. 79

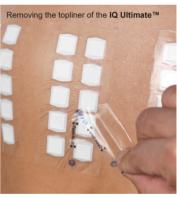


This series is a selection of haptens (primarily coloring agents and bactericides) found in textiles and clothes.

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 hapten in each patch test chamber starting with the 1st hapten of the series in the corresponding chamber. The recommended dose is **25** μ l*.



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

Introducing the American Core Series



The American Core Series (ACS-1000) is a hapten series based on the Core Series, a hapten series recommendation presented by the American Contact Dermatitis Society (ACDS) in 2012 (revised 2017). The intention of the series is to provide clinics using ready-to-use patch test systems a comprehensive alternative for all situations when such ready-to-use systems are far too limiting.

ACDS

Visit www.contactderm.org to find out more about the American Contact Dermatitis Society (ACDS) and their Core Series.



Reaching out to new regions

With an ever growing network of distributors we are happy to increase the availability of out Patch test products. This year we are happy to announce that we have secured local distribution not only in Slovakia but also in Jamaica and other parts of the Caribbean!

Visit www.chemotechnique.se to find your local distributor.



IBOA - 2019 Hapten of the Year

Glucose monitoring systems, such as the FreeStyle® Libre, are innovative medical devices developed for diabetes patients as a replacement for classic glucose meters, eliminating the hurdles of traditional glucose monitoring and requires no routine fingersticks or fingerstick calibrations. It is estimated that more than 400,000 people are using FreeStyle®Libre. Shortly after the first glucose monitoring systems appeared on the market, the first concerns about adverse skin reactions were raised. For a long time the actual substance that caused these skin reactions could not be identified; however recently Belgian and Swedish dermatologists have reported that the majority of their patients that have developed a contact allergic reaction while using its glucose monitoring system react specifically to isobornyl acrylate (IBOA). Subsequently they showed by means of gas chromatography mass spectrometry (GCMS) that this substance is present in the case of the glucose sensor attached by an adhesive to the skin. Cases of allergic contact dermatitis caused by FreeStyle® Libre are increasingly being observed and further reposts have also shown that IBOA is present in new tubeless insulin pumps such as the OmniPod causing new cases of contact allergy.

ISOBORNYL ACRYLATE (IBOA)

IBOA (I-019) has been added to both (Meth) Acrylate Series MA-1000 and MP-1000 in addition to being available for purchase as a stand-alone hapten

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 ("Topical 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
- Lićhen planus-like
- Psoriasis of the handsGranulomatous 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

Series composition

Chemotechnique MB Diagnostics AB, in presenting the various Screening Series in this Reference Manual, does its best to include compounds associated with each field based on current technical, occupational and scientific information, however, each Series should not be considered as all inclusive with compounds associated with each field.

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.

Clinical information

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.

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

Topical 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.

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

Clinical information



Day 0: Patch test application (start of 48h hapten occlusion)

Day 2: Patch test removal (optional reading)
Day 3 or 4: Main reading

Day 7: Delayed response reading

Products

Contents

Topical Haptens:

Topical Haptens are delivered as one or more types of hapten preparations contained in one of two different delivering devices.

Topical 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

Topical Haptens:



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 \leq -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

Topical 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

Topical 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?



The recommended dose is 25 µl. When applying haptens in petrolatum, dispense a 5 mm string into the IQ Patch Test Chamber (this corresponds to approximately 25 µl or 20 mg). For liquid haptens, the same amount (20-25 µl) 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 6-12 months for haptens based on aqua or ethanol.

The expiration date is clearly marked on the label of each hapten.

^{*} INCI: International Nomenclature of Cosmetic Ingredients

S-1000

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Compostion of International Baseline Series

Volatile hapten, not recommended for preloading

European Baseline Series

EC Directive 2003/15/EC relating to cosmetic products

	1			
1. 2.	Potassium dichromate p-PHENYLENEDIAMINE (PPD)	0.5 1.0	pet pet	P-014A P-006
3.	Thiuram mix	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		
4.	Neomycin sulfate	20.0	pet	N-001
5.	Cobalt(II)chloride hexahydrate		pet	
6.	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		
7.	Nickel(II)sulfate hexahydrate	5.0	pet	N-002A
8.	2-Hydroxyethyl methacrylate ②	2.0	pet	H-010
9.	COLOPHONIUM		pet	
10.	Paraben mix		pet	Mx-03C
	-BUTYLPARABEN (B-020)	4.0		
	-ETHYLPARABEN (E-010)	4.0		
	-METHYLPARABEN (M-012)	4.0		
44	-PROPYLPARABEN (P-020)	4.0		1.004
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 0.5

(C-023)

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

	Compound	Conc.		Art. No.
	-Dibenzothiazyl disulfide (MBTS) (D-003) -2-Mercaptobenzothiazole (MBT) (M-003)	0.5	•••,	
	-2-(4-Morpholinylmercapto)benzothiazol (MOR) (M-016)	0.5		
14.	Epoxy resin, Bisphenol A	1.0	pet	E-002
	Peru balsam²	25.0	pet	B-001
	4-tert-Butylphenolformaldehyde resin (PTBP)	1.0	pet	B-024
	2-Mercaptobenzothiazole (MBT)	2.0	pet	M-003A
	FORMALDEHYDE ⊘	2.0	aq	F-002B
19.		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) → HYDROXYCHTRONELLAL (H-000)	1.0		
	-HYDROXYCITRONELLAL (H-008)	1.0 1.0		
	-ISOEUGENOL (I-002) Oakmoss absolute (O-001) Oakmoss absolute (O-001)	1.0		
20.		0.1	pet	Mx-18
20.	-Alantolactone (A-003)	0.03		IVIX-10
	-Costunolide (C-039)	0.03		
	-Dehydrocostus lactone (D-056)	0.03		
21.	QUATERNIUM-15	1.0	pet	C-007A
22.	Propolis	10.0		P-022
23.	·	0.02		C-009B
	METHYLCHLOROISOTHIAZOLINONE ❷		•	
24.	Budesonide	0.01	pet	B-033B
25.	Tixocortol-21-pivalate	0.1	pet	T-031B
	METHYLDIBROMO GLUTARONITRILE	0.5	pet	D-049E
27.	•	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) HYDROXYISOHEXYL 3-CYCLOHEXENE	0.5 5.0	not	1 003
28.	CARBOXALDEHYDE	3.0	pet	L-003
29.		0.2	aq	M-035B
30.	Textile dye mix	6.6	pet	Mx-30
50.	TOALIO GYO TIIIA	5.0	PCI	IVIX-OU

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

Revised October 2018

European Comprehensive Baseline Series

ECB-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)	0.25		
	(T-006)			
4.	Neomycin sulfate ¹	20.0	pet	N-001
5.	Cobalt(II)chloride hexahydrate ¹			C-017A
6.	Caine mix III ¹	10.0	pet	Mx-19
	-Benzocaine (B-004)	5.0		
	-Dibucaine hydrochloride (D-005)	2.5		
	-Tetracaine hydrochloride (T-025)	2.5		
7.	Nickel(II)sulfate hexahydrate ¹	5.0	pet	N-002A
8.	2-Hydroxyethyl methacrylate¹	2.0	pet	H-010
9.	COLOPHONIUM ¹		pet	C-020
10.	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		
11.		0.1	pet	I-004
	(IPPD)1			
	LANOLIN ALCOHOL ¹	30.0		W-001
13.	Mercapto mix ¹	2.0	pet	Mx-05A
	-N-Cyclohexyl-2-benzothiazolesulfenamide	0.5		
	(C-023)			
	-Dibenzothiazyl disulfide (MBTS) (D-003)	0.5		

	Compound	Conc. %(w		Art. No.
	-2-Mercaptobenzothiazole (MBT) (M-003) -2-(4-Morpholinylmercapto)benzothiazol (MOR) (M-016)	0.5 0.5	•	
14.	Epoxy resin, Bisphenol A1	1.0	pet	E-002
15.	Peru balsam ^{1,2}	25.0	pet	B-001
16.	, , , , , , , , , , , , , , , , , , , ,		pet	B-024
	2-Mercaptobenzothiazole (MBT) ¹	2.0	pet	M-003A
	FORMALDEHYDE¹	2.0	aq	F-002B
19.		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) ❷	1.0		
	-GERANIOL (G-001) Ø -HYDROXYCITRONELLAL (H-008)	1.0 1.0		
	-ISOEUGENOL (I-002) ♥	1.0		
	-Oakmoss absolute (O-001)	1.0		
20.		0.1	pet	Mx-18
20.	-Alantolactone (A-003)	0.03	-	IVIX-10
	-Costunolide (C-039)	0.03		
	-Dehydrocostus lactone (D-056)	0.03		
21.	QUATERNIUM-15 ¹	1.0		C-007A
	Propolis ¹	10.0		P-022
23.	·	0.02		C-009B
	METHYLCHLOROISOTHIAZOLINONE¹ ⊗		•	
24.	Budesonide ¹	0.01	pet	B-033B
25.	· · · · · · · · · · · · · · · · · · ·	0.1	pet	T-031B
26.	METHYLDIBROMO GLUTARONITRILE ¹	0.5	pet	D-049E
27.	Fragrance mix II ¹ 🗞	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		
00	-CITRONELLOL (C-037) ❷	0.5		
28.	HYDROXYISOHEXYL 3-CYCLOHEXENE	5.0	pet	L-003
20	CARBOXALDEHYDE1	0.0	00	M OSED
29. 30.		0.2 6.6	aq pet	M-035B Mx-30
JU.	Textile dye mix ¹		pet	IVIX-3U
	-Diperse Blue 35 (D-027)	1.0		

	Compound	Conc %(w		Art. No.
	-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		
31.	SODIUM METABISULFITE	1.0	pet	S-011
32.	2-BROMO-2-NITROPROPANE-1,3-DIOL	0.5	pet	B-015B
33.	DIAZOLIDINYL UREA	2.0	pet	D-044A
34.	IMIDAZOLIDINYL UREA	2.0	pet	I-001A
35.	Compositae mix II <	2.5	pet	Mx-29B
	-Anthemis nobilis extract (C-029)	0.6		
	-Chamomilla recutita extract (C-051)	0.6		
	-Achillea millefolium extract (A-025) 🗞	0.5		
	-Tanacetum vulgare extract (T-033) 🗞	0.5		
	-Arnica montana extract (A-024) 🗞	0.25		
	-Parthenolide (P-029)	0.05		
36.	Hydroperoxides of Linalool < ⊘	1.0	pet	H-031A
37.	Hydroperoxides of Linalool < ⊘	0.5	pet	H-031B
38.	Hydroperoxides of Limonene	0.3	pet	H-032A
39.	Hydroperoxides of Limonene <a>⊗	0.2	pet	H-032B
40.	BENZISOTHIAZOLINONE	0.1	pet	B-003B
41.	2-n-Octyl-4-isothiazolin-3-one	0.1	pet	O-004
42.		5.0	pet	D-065
43.	LAURYL POLYGLUCOSE ❷	3.0	pet	L-004
	Rev	ised N	loven	nber 2018

0.5 pet

International Standard Series IS-1000

Potassium dichromate¹

1.

2.	Neomycin sulfate ¹	20.0	pet	N-001
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)	0.25		
	(T-006)			
4.	p-PHENYLENEDIAMINE (PPD) ¹	1.0	pet	P-006
5.	FORMALDEHYDE¹ ⊗	2.0	aq	F-002B
6.	COLOPHONIUM ¹	20.0	pet	C-020

P-014A

	Compound	Conc. %(w		Art. No.
7.	Peru balsam¹,²	25.0	pet	B-001
8.	LANOLIN ALCOHOL ¹	30.0	pet	W-001
9.	Mercapto mix ¹	2.0	pet	Mx-05A
	-N-Cyclohexyl-2-benzothiazolesulfenamide	0.5	•	
	(C-023)			
	-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 7 1	1.0	pet	E-002
11.	4-tert-Butylphenolformaldehyde resin (PTBP)		pet	B-024
12.	0	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) ⊗	1.0		
	-GERANIOL (G-001) ❷	1.0		
	-HYDROXYCITRONELLAL (H-008)	1.0		
	-ISOEUGENOL (I-002) Ø	1.0		
	-Oakmoss absolute (O-001) ❷	1.0		
13.		2.5	pet	N-002B
14.	2-Mercaptobenzothiazole (MBT) ¹	2.0	pet	M-003A
15.		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	pet	I-001A
19.	Tixocortol-21-pivalate ¹	0.1	pet	T-031B
20.	METHYLDIBROMO GLUTARONITRILE	0.3	pet	D-049A
21.		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.	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		

	Compound	Conc. %(w		Art. No.
	-Parthenolide (P-029)	0.1		
24.	DIAZOLIDINYL UREA	2.0	pet	D-044A
25.	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		
	-CITRONELLOL (C-037) ◆	0.5		
26.	Hydrocortisone-17-butyrate	1.0	pet	H-021B
27.	HYDROXYISOHEXYL 3-CYCLOHEXENE	5.0	pet	L-003
	CARBOXALDEHYDE ¹			
28.	N-Isopropyl-N-phenyl-4-phenylenediamine	0.1	pet	I-004
	(IPPD) ¹			
29.	Paraben mix ¹	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		
30.	Sesquiterpene lactone mix ¹	0.1	pet	Mx-18
	-Alantolactone (A-003)	0.03	3	
	-Costunolide (C-039)	0.03		
	-Dehydrocostus lactone (D-056)	0.03	3	
	Toluenesulfonamide formaldehyde resin			T-010
32.	METHYLISOTHIAZOLINONE¹	0.2		M-035B
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International Comprehensive Baseline Series

ICB-1000

Benzocaine	5.0 pet	B-004
2-Mercaptobenzothiazole (MBT)	1.0 pet	M-003B
COLOPHONIUM ¹	20.0 pet	C-020
p-PHENYLENEDIAMINE (PPD) ¹	1.0 pet	P-006
IMIDAZOLIDINYL UREA	2.0 pet	I-001A
CINNAMAL ⊗	1.0 pet	C-014
Amerchol L-101	50.0 pet	A-004
Carba mix	3.0 pet	Mx-06
-1,3-Diphenylguanidine (D-022)	1.0	
	2-Mercaptobenzothiazole (MBT) COLOPHONIUM¹ p-PHENYLENEDIAMINE (PPD)¹ IMIDAZOLIDINYL UREA CINNAMAL ℰ Amerchol L-101 Carba mix	2-Mercaptobenzothiazole (MBT) COLOPHONIUM¹ p-PHENYLENEDIAMINE (PPD)¹ IMIDAZOLIDINYL UREA CINNAMAL Amerchol L-101 Carba mix 1.0 pet 20.0 pet 1.0 pet 1.0 pet 50.0 pet 3.0 pet

	Compound	Conc. %(w/		Art. No.
	-ZINC DIBUTYLDITHIOCARBAMATE (ZBC) (Z-002)	1.0		
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)	1.0 20.0 1.0 0.25 0.25 0.25 0.25	pet pet	N-001 Mx-01
11.	(T-006) Clobetasol-17-propionate	1.0	pet	C-028
12.		1.0	pet	E-005
13.		1.0	pet	E-002
14.		2.0	pet	C-007B
15.	, ,		pet	B-024
16.		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 (MOR) (M-016)	0.25		
17.	, , , ,	1.0	pet	D-022
18.		0.25		P-014B
19.	Peru balsam¹,² ❷	25.0		B-001
20.	Nickel(II)sulfate hexahydrate	2.5	pet	N-002B
21.		1.0	pet	D-044C
22.	TOCOPHEROL ⊘	100		T-036
	Bacitracin	20.0	-	B-032B
24.	Mixed dialkyl thiourea	1.0	pet	Mx-24
	-N,N'-Dibutylthiourea (D-038) -N,N'-Diethylthiourea (D-039)	0.5 0.5		
25.		1.0	pet	D-032
26.		12.0		Mx-03A
20.	-BUTYLPARABEN (B-020)	3.0	por	IVIX-007 (
	-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		

Compound	Conc. Veh. %(w/w)	Art. No.
-CINNAMYL ALCOHOL (C-013) 🗞	1.0	
-CINNAMAL (C-014) 🗞 🗋	1.0	
-EUGENOL (È-016) ®	1.0	
-GERANIOL (G-001) ❷	1.0	
-HYDROXYCITRONELLAL (H-008)	1.0	
-ISOEUGENOL (I-002) 🗞 🗋	1.0	
-Oakmoss absolute (O-001) ❷	1.0	
29. GLUTARAL ²	0.5 pet	G-003B
30. 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)	0.033	
-Costunolide (C-039)	0.033	
-Dehydrocostus lactone (D-056)	0.033	
32. THIMEROSAL	0.1 pet	T-007
33. Propolis ¹	10.0 pet	P-022
34. BENZOPHENONE-3	10.0 pet	H-014C
35. CHLOROXYLENOL (PCMX)	1.0 pet	C-010B
36. Ethyleneurea, melamine formaldehyde mix ²	5.0 pet	Mx-16
-Dimethylol dihydroxy ethylene urea (D-012)	2 4.0	
-Melamine formaldehyde (M-001) 🗞	1.0	
37. 2-tert-Butyl-4-methoxyphenol (BHA)	2.0 pet	B-022
38. Gold(I)sodium thiosulfate dihydrate	0.5 pet	G-005A
39. Ethyl acrylate ❷	0.1 pet	E-004
40. GLYCERYL THIOGLYCOLATE ❷	1.0 pet	G-004
41. Toluenesulfonamide formaldehyde resin	10.0 pet	T-010
42. Methyl methacrylate ⊗	2.0 pet	M-013
43. Cobalt(II)chloride hexahydrate ¹	1.0 pet	C-017A
44. Tixocortol-21-pivalate	1.0 pet	T-031A
45. Budesonide	0.1 pet	B-033A
46. 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)	1.0	
-Disperse Blue 106 (D-040)	0.3	
-Disperse Blue 124 (D-041)	0.3	
49. Tea tree oil oxidized <	5.0 pet	T-035B

	Compound	Conc. %(w		Art. No.
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		
	-HYDROXYISOHEXYL 3-CYCLOHEXENE	2.5		
	CARBOXALDEHYDE (L-003)			
	-CITRAL (C-036)	1.0		
-4	-CITRONELLOL (C-037) ②	0.5		D 000
51.	Disperse Yellow 3	1.0	pet	D-036
52.		10.0		B-010B
53.		5.0	pet	D-065
54.		0.2	aq	M-035B
56.	2-Hydroxyethyl methacrylate¹ DMDM HYDANTOIN³	2.0	pet	H-010 D-047B
		2.0	pet pet	Y-001
57. 58.	Ylang ylang oil <a>⊗ BENZYL ALCOHOL <a>⊗	10.0		B-008B
	ISOPROPYL MYRISTATE	20.0		I-003
60.		0.3	pet	H-032A
61.	•	1.0	pet	D-057
62.		5.0	pet	P-013
	IODOPROPYNYL BUTYLCARBAMATE	0.2	pet	I-008C
	2-n-Octyl-4-isothiazolin-3-one	0.1	pet	O-004
65.		1.0	pet	Mx-26
	-Disperse Blue 106 (D-040)	0.5	F	
	-Disperse Blue 124 (D-041)	0.5		
66.		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.	Lidocaine	15.0	pet	L-002B
68.		2.0	pet	F-003
69.	,	2.5	pet	D-005B
	Benzoylperoxide	1.0	pet	B-007
71.		10.0	•	I-009
72.		5.0	pet	L-003
70	CARBOXALDEHYDE ¹	- 0		0.0074
73.	_	5.0	pet	O-007A
74.	Hydroperoxides of Linalool < ⊘	1.0	pet	H-031A

	Compound	Conc. %(w		Art. No.
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 ⊗			
	PROPYLENE GLYCOL ❷	30.0	aq	P-019B
80.	OLEAMIDOPROPYL DIMETHYLAMINE ⊗	0.1	aq	O-005
	Revi	sed	Janua	ry 2018

Latin American Baseline Series LA-1000

1. 2. 3.	Potassium dichromate¹ p-PHENYLENEDIAMINE (PPD)¹ Thiuram mix¹ -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 sulfate¹	20.0	pet	N-001
5.	Cobalt(II)chloride hexahydrate ¹	1.0		C-017A
6.	Caine mix III ¹	10.0	pet	Mx-19
	-Benzocaine (B-004)	5.0		
	-Dibucaine hydrochloride (D-005)	2.5		
_	-Tetracaine hydrochloride (T-025)	2.5		N. 000A
7.	Nickel(II)sulfate hexahydrate ¹	5.0	pet	N-002A
8.	Clioquinol COLOPHONIUM ¹	5.0	pet	C-015
9.	Paraben mix ¹	20.0 16.0		C-020 Mx-03C
10.	-BUTYLPARABEN (B-020)	4.0	per	IVIX-USC
	-ETHYLPARABEN (E-010)	4.0		
	-METHYLPARABEN (M-012)	4.0		
	-PROPYLPARABEN (P-020)	4.0		
11.	` ,		pet	I-004
	(IPPD) ¹		J	
12.	LANOLIN ALCOHOL ¹	30.0	pet	W-001
13.	Mercapto mix ¹	2.0	pet	Mx-05A
	-N-Cyclohexyl-2-benzothiazolesulfenamide (C-023)	0.5		
	-Dibenzothiazyl disulfide (MBTS) (D-003)	0.5		
	-2-Mercaptobenzothiazole (MBT) (M-003)	0.5		

	Compound	Conc.		Art. No.
	-2-(4-Morpholinylmercapto)benzothiazol (MOR) (M-016)	0.5	,	
14.	Epoxy resin, Bisphenol A ¹	1.0	pet	E-002
	Peru balsam ^{1,2} ②	25.0		B-001
16.		1.0	pet	B-024
17.	2-Mercaptobenzothiazole (MBT) ¹	2.0	pet	M-003A
18.	FORMALDEHYDE @	1.0	pet	F-002C
19.	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) ⊘	1.0		
	-EUGENOL (E-016) ⊘	1.0		
	-GERANIOL (G-001) Ø	1.0		
	-HYDROXYCITRONELLAL (H-008)	1.0		
	-ISOEUGENOL (I-002) ⊘	1.0		
20	-Oakmoss absolute (O-001) Consultary and leatens rain!	1.0		NAv. 40
20.	Sesquiterpene lactone mix ¹ -Alantolactone (A-003)	0.1	pet	Mx-18
	-Costunolide (C-039)	0.03		
	-Dehydrocostus lactone (D-056)	0.03		
21	QUATERNIUM-15 ¹	1.0		C-007A
	2-Methoxy-6-n-pentyl-4-benzoquinone	0.01		M-008
23.		0.01		C-009A
	METHYLCHLOROISOTHIAZOLINONE ❷		'	
24.	Budesonide ¹	0.01	pet	B-033B
25.	Tixocortol-21-pivalate ¹	0.1	pet	T-031B
26.	METHYLDIBROMO GLUTARONITRILE ¹	0.5	pet	D-049E
27.	3	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) HYDROXYISOHEXYL 3-CYCLOHEXENE	0.5 5.0	not	1 003
20.	CARBOXALDEHYDE1	5.0	pet	L-003
29	Toluenesulfonamide formaldehyde resin	10.0	net	T-010
	COCAMIDOPROPYL BETAINE	1.0	aq	C-018
	DIAZOLIDINYL UREA	2.0	pet	D-044A
	PROPYL GALLATE	1.0	pet	P-021
			•	

	Compound	Conc. %(w		Art. No.
33.	Sodium tetrachloropalladate(II) hydrate	3.0	pet	S-017
34.	THIMEROSAL	0.1	pet	T-007
35.	Disperse Blue mix 106/124	1.0	pet	Mx-26
	-Disperse Blue 106 (D-040)	0.5		
	-Disperse Blue 124 (D-041)	0.5		
36.	Mixed dialkyl thiourea	1.0	pet	Mx-24
	-N,N´-Dibutylthiourea (D-038)	0.5		
	-N,N´-Diethylthiourea (D-039)	0.5		
37.	METHYLISOTHIAZOLINONE ¹	0.2	aq	M-035B
38.	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		
39.	Hydrocortisone-17-butyrate	1.0	pet	H-021B
40.	IMIDAZOLIDINYL UREA	2.0	pet	I-001A
		Intro	duced	2015

North American Baseline Series NA-1000

1. 2.	Benzocaine Textile dye mix ¹ -Diperse Blue 35 (D-027) -Diperse Orange 1 (D-031) -DISPERSE ORANGE 3 (D-032)	5.0 6.6 1.0 1.0	pet pet	B-004 Mx-30
	-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		
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 ⊘	1.0	pet	C-014
7.	Amerchol L-101	50.0	pet	A-004
8.	Carba mix	3.0	pet	Mx-06
	-1,3-Diphenylguanidine (D-022)	1.0		
	-ZINC DIBUTYLDITHIOCARBAMATE (ZBC) (Z-002)	1.0		
	-Zinc diethyldithiocarbamate (ZDC) (Z-003)	1.0		

	Compound	Conc. %(w/		Art. No.
9.	Neomycin sulfate ¹	20.0	pet	N-001
10.	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)			
	-Tetramethylthiuram monosulfide (TMTM) (T-006)	0.25		
11.		2.0	aq	F-002B
	Ethylenediamine dihydrochloride	1.0	pet	E-005
	Epoxy resin, Bisphenol A ¹	1.0	pet	E-002
	QUATERNIUM-15 ¹	2.0	pet	C-007B
	4-tert-Butylphenolformaldehyde resin (PTBP)1	1.0	pet	B-024
	Ylang ylang oil ❷	2.0	pet	Y-001
17.	1,3-Diphenylguanidine	1.0	pet	D-022
	Potassium dichromate	0.25		P-014B
	Peru balsam ^{1,2} ⊘	25.0		B-001
	Nickel(II)sulfate hexahydrate	2.5	pet	N-002B
	DIAZOLIDINYL UREA	1.0	pet	D-044C
	DMDM HYDANTOIN	1.0	pet	D-047B
	Bacitracin	20.0	•	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.	METHYLISOTHIAZOLINONE +	0.02	aq	C-009B
	METHYLCHLOROISOTHIAZOLINONE¹			
26.		12.0	pet	Mx-03A
	-BUTYLPARABEN (B-020)	3.0		
	-ETHYLPARABEN (E-010)	3.0		
	-METHYLPARABEN (M-012)	3.0		
07	-PROPYLPARABEN (P-020)	3.0		D 040E
	METHYLDIBROMO GLUTARONITRILE ¹	0.5	pet	D-049E
28.	0	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) ALVERONY (GERONIEL AL (LL000))	1.0		
	-HYDROXYCITRONELLAL (H-008)	1.0		
	-ISOEUGENOL (I-002)	1.0		
20	-Oakmoss absolute (O-001) CLUTARAL 2 COMMON AND A 12 COMMON AND A 12	1.0	not	C 002B
29.	GLUTARAL ² ⊘	0.5	pet	G-003B

	Compound	Conc. %(w/		Art. No.
	2-BROMO-2-NITROPROPANE-1,3-DIOL	0.5	pet	B-015B
31.		0.1	pet	Mx-18
	-Alantolactone (A-003)	0.03	3	
	-Costunolide (C-039)	0.03	3	
	-Dehydrocostus lactone (D-056)	0.03		
32.	0	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		
	PROPYLENE GLYCOL	30.0		P-019B
	2-Hydroxyethyl methacrylate¹	2.0	pet	H-010
	Propolis ¹	10.0		P-022
	Hydroperoxides of Limonene ②	0.3	pet	H-032A
37.		0.2	pet	I-008C
38.	•	1.0	pet	Mx-26
	-Disperse Blue 106 (D-040)	0.5		
20	-Disperse Blue 124 (D-041)	0.5	4	E 004
	Ethyl acrylate	0.1	pet	E-004
	Hydroperoxides of Linalool ®	1.0	pet	H-031A
	Toluenesulfonamide formaldehyde resin	10.0	•	T-010
	Methyl methacrylate 🗞	2.0	pet	M-013
43.	Cobalt(II)chloride hexahydrate ¹ Tixocortol-21-pivalate	1.0 0.1	pet	C-017A T-031A
	Budesonide	0.1	pet pet	B-033A
46.		5.0	pet	Mx-29A
40.	-Anthemis nobilis extract (C-029)	1.2	her	IVIX-ZSA
	-Chamomilla recutita extract (C-029) &	1.2		
	-Achillea millefolium extract (A-025) ❷	1.0		
	-Tanacetum vulgare extract (T-033)	1.0		
	-Arnica montana extract (A-024)	0.5		
	-Parthenolide (P-029)	0.1		
47	DECYL GLUCOSIDE ⁴	5.0	pet	D-065
	OLEAMIDOPROPYL DIMETHYLAMINE		aq	O-005
49.		1.0	aq	C-018
50.	METHYLISOTHIAZOLINONE¹ ❷	0.2	aq	M-035B
	Revi			y 2018

North American 65 Extended **Series**

NAE-65

1. 2. 3. 4. 5. 6. 7. 8.	Benzocaine 2-Mercaptobenzothiazole (MBT)¹ COLOPHONIUM¹ p-PHENYLENEDIAMINE (PPD)¹ IMIDAZOLIDINYL UREA CINNAMAL ② 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	20.0 1.0 0.25 0.25	pet pet	N-001 Mx-01
11. 12. 13. 14. 15.	FORMALDEHYDE¹ Ethylenediamine dihydrochloride Epoxy resin, Bisphenol A¹ QUATERNIUM-15¹ 4-tert-Butylphenolformaldehyde resin (PTBP)¹	2.0 1.0 1.0 2.0 1.0 0.25 0.25 0.25	aq pet pet pet pet pet	F-002B E-005 E-002 C-007B B-024 Mx-05B
18. 19. 20. 21.	1,3-Diphenylguanidine Potassium dichromate Peru balsam Nickel(II)sulfate hexahydrate	1.0 0.25 25.0 2.5 1.0 1.0		D-022 P-014B B-001 N-002B D-044C D-047B

	Compound	Conc. %(w		Art. No.
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.	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		
	METHYLDIBROMO GLUTARONITRILE ¹	0.5	pet	D-049E
28.		8.0	pet	Mx-07
	-AMYL CINNAMAL (A-014)	1.0		
	-CINNAMYL ALCOHOL (C-013)	1.0		
	-CINNAMAL (C-014) CHOCKLOT (F-040) CHOCKLOT (F	1.0		
	-EUGENOL (E-016)	1.0		
	-GERANIOL (G-001) LIVERONY (GITPONIELLAL (LL 000))	1.0		
	-HYDROXYCITRONELLAL (H-008)	1.0		
	-ISOEUGENOL (I-002) ❷ -Oakmoss absolute (O-001) ❷	1.0 1.0		
20	GLUTARAL ²	0.5	pet	G-003B
	2-BROMO-2-NITROPROPANE-1,3-DIOL	0.5	pet	B-015B
31.		0.3	pet	Mx-18
01.	-Alantolactone (A-003)	0.03		IVIX-10
	-Costunolide (C-039)	0.03		
	-Dehydrocostus lactone (D-056)	0.03		
32.	Fragrance mix II ¹	14.0		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) Ø	0.5		
33.	PROPYLENE GLYCOL ❷	30.0		P-019B
	BENZOPHENONE-3	10.0	-	H-014C
	CHLOROXYLENOL (PCMX)	1.0	pet	C-010B
	Hydroperoxides of Limonene	0.3	pet	H-032A
	IODOPROPYNYL BUTYLCARBAMATE	0.2	pet	I-008C
38.	Disperse Blue mix 106/124	1.0	pet	Mx-26

Compound	Conc. %(w		Art. No.
-Disperse Blue 106 (D-040) -Disperse Blue 124 (D-041)	0.5 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	•	T-010
42. Methyl methacrylate ❖	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) ■ Control of the	0.5		
-Parthenolide (P-029)	0.1		NAv. 20
47. Textile dye mix ¹ -Diperse Blue 35 (D-027)	6.6 1.0	pet	Mx-30
-Diperse Blue 33 (D-027) -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 ❷	0.1	aq	O-005
49. COCAMIDOPROPYL BETAINE ⊗	1.0	aq	C-018
50. METHYLISOTHIAZOLINONE¹	0.2	aq	M-035B
51. Lidocaine	15.0	pet	L-002B
52. Dibucaine hydrochloride	2.5	pet	D-005B
53. DECYL GLUCOSIDE⁴ Ø	5.0	pet	D-065
54. Clobetasol-17-propionate	1.0	pet	C-028
55. Amidoamine ®	0.1	aq	A-029
56. 2-Hydroxyethyl methacrylate¹ ⊘	2.0	pet	H-010
57. Desoximetasone 58. HYDROXYISOHEXYL 3-CYCLOHEXENE	1.0	pet	D-057
CARBOXALDEHYDE1	5.0	pet	L-003
59. BENZYL ALCOHOL €	10.0	sof	B-008B
60. TOCOPHEROL @	10.0	301	T-036
61. Propolis ¹	10.0	pet	P-022
62. Fusidic acid sodium salt	2.0	pet	F-003
		-	

	Compound	Conc. Veh. %(w/w)		Art. No.
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
		Revised January 2018		

North American 80 Comprehensive Series NA

1. 2. 3. 4. 5. 6. 7.	Benzocaine 2-Mercaptobenzothiazole (MBT) COLOPHONIUM¹ p-PHENYLENEDIAMINE (PPD)¹ IMIDAZOLIDINYL UREA CINNAMAL ② Amerchol L-101 Carba mix -1,3-Diphenylguanidine (D-022) -ZINC DIBUTYLDITHIOCARBAMATE	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.	(ZBC) (Z-002) -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)	20.0 1.0 0.25 0.25	pet pet	N-001 Mx-01
11.	Clobetasol-17-propionate	1.0	pet	C-028
12.	Ethylenediamine dihydrochloride	1.0	pet	E-005
13. 14.	Epoxy resin, Bisphenol A ¹ QUATERNIUM-15 ¹	1.0 2.0	pet pet	E-002 C-007B
15.			pet	B-024
16.	, ,	1.0	pet	Mx-05B
	-N-Cyclohexyl-2-benzothiazolesulfenamide (C-023)	0.25		
	-Dibenzothiazyl disulfide (MBTS) (D-003) -2-Mercaptobenzothiazole (MBT) (M-003) -2-(4-Morpholinylmercapto)benzothiazol	0.25 0.25 0.25		
	(MOR) (M-016)			
17.	1,3-Diphenylguanidine	1.0	pet	D-022

	Compound	Conc. %(w		Art. No.
18.		0.25		P-014B
	Peru balsam¹,²	25.0	pet	B-001
20.	` /	2.5	pet	N-002B
21.		1.0	pet	D-044C
	TOCOPHEROL ⊘	100		T-036
23.		20.0		B-032B
24.	,	1.0	pet	Mx-24
	-N,N'-Dibutylthiourea (D-038)	0.5		
0.5	-N,N´-Diethylthiourea (D-039)	0.5	4	D 000
25.		1.0	pet	D-032
26.		12.0	pet	Mx-03A
	-BUTYLPARABEN (B-020)	3.0		
	-ETHYLPARABEN (E-010)	3.0		
	-METHYLPARABEN (M-012) -PROPYLPARABEN (P-020)	3.0		
27.		0.5	pet	D-049E
28.		8.0	pet	Mx-07
20.	-AMYL CINNAMAL (A-014)	1.0	por	IVIX-01
	-CINNAMYL ALCOHOL (C-013) ❖	1.0		
	-CINNAMAL (C-014) ❷	1.0		
	-EUGENOL (E-016) ⊘	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.	GLUTARAL ²	0.5	pet	G-003B
30.	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		
32.		0.1	pet	T-007
33.	ı	10.0		P-022
34.		10.0		H-014C
	CHLOROXYLENOL (PCMX)	1.0	pet	C-010B
36.		5.0	pet	Mx-16
	-Dimethylol dihydroxy ethylene urea (D-012) Molegrain of a grandlabydo (M-001) M			
27	-Melamine formaldehyde (M-001) 2-tert-Butyl-4-methoxyphenol (BHA)	1.0 2.0	not	B-022
38.	Gold(I)sodium thiosulfate dihydrate	0.5	pet pet	G-005A
39.	Ethyl acrylate ②	0.5	pet	G-005A E-004
J9.	Luiyi adiylate 🐷	0.1	per	L-004

	Compound	Conc. %(w		Art. No.
40. 41. 42. 43. 44.	Toluenesulfonamide formaldehyde resin	1.0 10.0 2.0 1.0	pet pet pet pet pet	G-004 T-010 M-013 C-017A T-031A
45.	•	0.1	pet	B-033A
46.	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 1.0		
	-Disperse Yellow 3 (D-036) -Disperse Blue 106 (D-040)	0.3		
	-Disperse Blue 100 (D-040) -Disperse Blue 124 (D-041)	0.3		
49	Tea tree oil oxidized ②	5.0	pet	T-035B
	Fragrance mix II ¹	14.0		Mx-25
00.	-Hexyl cinnamic aldehyde (H-025)	5.0	Pot	<u>20</u>
	-COUMARIN (C-038)	2.5		
	-FARNESOL (F-004)	2.5		
	-HYDROXYISOHEXYL 3-CYCLOHEXENE	2.5		
	CARBOXALDEHYDE (L-003)			
	-CITRAL (C-036)	1.0		
-4	-CITRONELLOL (C-037) ❷	0.5		D 000
51.	1	1.0	pet	D-036
	BENZYL SALICYLATE DECYL GLUCOSIDE⁴ ❷	10.0	-	B-010B
53. 54.		5.0 0.2	pet aq	D-065 M-035B
	2-Hydroxyethyl methacrylate ¹	2.0	pet	H-010
	DMDM HYDANTOIN ³	1.0	pet	D-047B
57.		2.0	pet	Y-001
	BENZYL ALCOHOL &	10.0	•	B-008B
	ISOPROPYL MYRISTATE	20.0		I-003
60.		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.	- ,	0.1	pet	O-004
65.	Disperse Blue mix 106/124	1.0	pet	Mx-26
	-Disperse Blue 106 (D-040)	0.5		

	Compound	Conc. %(w		Art. No.	
	-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.		15.0	pet	L-002B	
68.	Fusidic acid sodium salt	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.		5.0	pet	L-003	
	CARBOXALDEHYDE ¹				
73.		5.0	pet	O-007A	
	Hydroperoxides of Linalool < ⊘	1.0	pet	H-031A	
75.	,	0.1	aq	A-029	
76.		1.0	aq	C-018	
	FORMALDEHYDE¹ ⊘	2.0	aq	F-002B	
78.	METHYLISOTHIAZOLINONE +	0.02	aq	C-009B	
	METHYLCHLOROISOTHIAZOLINONE¹				
79.		30.0	aq	P-019B	
80.	OLEAMIDOPROPYL DIMETHYLAMINE @		aq	O-005	
	Revised January 2018				

American Core Series AC-1000

1. 2. 3. 4. 5. 6.	Nickel(II)sulfate hexahydrate Amerchol L-101 Neomycin sulfate¹ Potassium dichromate DMDM HYDANTOIN³ ② Fragrance mix I¹.² ② -AMYL CINNAMAL (A-014) -CINNAMYL ALCOHOL (C-013) ② -CINNAMAL (C-014) ②	2.5 pet 50.0 pet 20.0 pet 0.25 pet 1.0 pet 8.0 pet 1.0 1.0	N-002B A-004 N-001 P-014B D-047B Mx-07

	-ISOEUGENOL (I-002) ❷	1.0		
	-Oakmoss absolute (O-001) ❷	1.0		
7.	COLOPHONIUM ¹	20.0	pet	C-020
8.	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		
9.	METHYLISOTHIAZOLÌNONɹ	0.2	aq	M-035B
10.	Peru balsam¹,² ⊘	25.0	pet	B-001
11.	Ethylenediamine dihydrochloride	1.0	pet	E-005
	Cobalt(II)chloride hexahydrate ¹	1.0	pet	C-017A
13.	4-tert-Butylphenolformaldehyde resin (PTBP)1	1.0	pet	B-024
	Epoxy resin, Bisphenol A ¹	1.0	pet	E-002
15.	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		
16.	Black rubber mix	0.6	pet	Mx-04
	- N-Cyclohexyl-N-phenyl-4-	0.25		
	phenylenediamine (C-024)			
	- N,N'-Diphenyl-p-phenylenediamine (D-024)			
	- N-Isopropyl-N-phenyl-4-phenylenediamine	0.1		
	(IPPD) (I-004)			
17.	METHYLISOTHIAZOLINONE +	0.01	aq	C-009A
	METHYLCHLOROISOTHIAZOLINONE¹ ⊗			
	QUATERNIUM-15 ¹	2.0	pet	C-007B
	METHYLDIBROMO GLUTARONITRILE ¹	0.5	pet	D-049E
	p-PHENYLENEDIAMINE (PPD) ¹	1.0	pet	P-006
	FORMALDEHYDE¹ ⊘	1.0	aq	F-002A
22.	Mercapto mix	1.0	pet	Mx-05B
	-N-Cyclohexyl-2-benzothiazolesulfenamide	0.25		
	(C-023)			
	-Dibenzothiazyl disulfide (MBTS) (D-003)	0.25		
	-2-Mercaptobenzothiazole (MBT) (M-003)	0.25		
	-2-(4-Morpholinylmercapto)benzothiazol	0.25		
00	(MOR) (M-016)	۰.		D 045D
	2-BROMO-2-NITROPROPANE-1,3-DIOL	0.5	pet	B-015B
24.	Thiuram mix ¹	1.0	pet	Mx-01
	-Dipentamethylenethiuram disulfide (D-019)	0.25		
		11 75		
	-Tetraethylthiuram disulfide (TETD) (T-002) -Tetramethylthiuram disulfide (TMTD) (T-005)			

	Compound	Conc. %(w		Art. No.
	-Tetramethylthiuram monosulfide (TMTM) (T-006)	0.25		
25.	,	1.0	pet	D-044C
26.	Benzocaine	5.0	pet	B-004
27.	Tixocortol-21-pivalate	1.0	pet	T-031A
28.	Gold(I)sodium thiosulfate dihydrate	2.0	pet	G-005B
29.	IMIDAZOLIDINYL UREA	2.0	pet	I-001A
	Budesonide	0.1	pet	B-033A
31.	,	1.0	pet	H-021B
32.	,	1.0	pet	M-003B
	Bacitracin		pet	B-032B
34.	5	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		
0.5	-CITRONELLOL (C-037) CONTROL (C-037) CONTRO	0.5		
35.	•	1.0	pet	Mx-26
	-Disperse Blue 106 (D-040)	0.5		
20	-Disperse Blue 124 (D-041)	0.5		I 000D
	Lidocaine	15.0		L-002B
	PROPYLENE GLYCOL	30.0	•	P-019B
	IODOPROPYNYL BUTYLCARBAMATE	0.2	pet	I-008C
39. 40.	Polymyxin B sulfate COCAMIDOPROPYL BETAINE	5.0 1.0	pet	P-026
40. 41.			aq	C-018
41.	Mixed dialkyl thiourea	1.0 0.5	pet	Mx-24
	-N,N´-Dibutylthiourea (D-038) -N,N´-Diethylthiourea (D-039)	0.5		
42.		1.0	20	D-053
43.	2-Hydroxyethyl methacrylate ¹	2.0	aq pet	H-010
	OLEAMIDOPROPYL DIMETHYLAMINE		aq	O-005
45.		5.0	pet	D-065
46.		2.0	pet	M-013
	Lavender absolute ②	2.0	pet	L-001
	CINNAMAL ®	1.0	pet	C-014
	TOCOPHEROL @	100	Por	T-036
	Ethyl acrylate @	0.1	pet	E-004
			~~.	
	Tea tree oil oxidized ⊗	5.0	pet	T-035B

	Compound	Conc. %(w		Art. No.
53.	Propolis ¹	10.0	pet	P-022
54.	CHLOROXYLENOL (PCMX)	1.0	pet	C-010B
55.	BENZOPHENONE-3	10.0	pet	H-014C
56.	Toluenesulfonamide formaldehyde resin	10.0	pet	T-010
57.		0.1	pet	Mx-18
	-Alantolactone (A-003)	0.03	3	
	-Costunolide (C-039)	0.03	3	
	-Dehydrocostus lactone (D-056)	0.03	3	
58.		0.5	pet	C-019
59.	p-CHLORO-m-CRESOL (PCMC)	1.0	pet	C-008
60.	BENZALKONIUM CHLORIDE ❷	0.1	aq	B-027
61.	BENZOPHENONE-4	2.0	pet	H-023C
62.		5.0	pet	S-001
63.		2.0	pet	S-003
	Ylang ylang oil ⊘	2.0	pet	Y-001
65.	•	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		
66.	Ethyleneurea, melamine formaldehyde mix ²	5.0	pet	Mx-16
	-Dimethylol dihydroxy ethylene urea (D-012)			
	-Melamine formaldehyde (M-001) →	1.0		
67.		20.0	•	S-005
68.	, · 1	1.0	pet	D-022
69.		20.0	•	C-033
	ETHYLHEXYLGLYCERIN	5.0	pet	E-027
	Triamcinolone acetonide	1.0	pet	T-030
72.		1.0	pet	C-028
73.		0.1	aq	A-029
	ETHYL CYANOACRYLATE ®	10.0	•	E-023
	PHENOXYETHANOL ®	1.0	pet	P-025
	DISPERSE ORANGE 3 BENZOIC ACID	1.0 5.0	pet	D-032
	BHT		pet	B-005
	ETHYLHEXYL METHOXYCINNAMATE	2.0 10.0	pet	D-006 E-019C
79. 80.		10.0		B-008B
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Bakery Series

0.1

1.0

pet

pet

T-031B

A-023

B-1000

Compostion of International Screening Series

Builtery Series	B 1000
1. VANILLIN 2. EUGENOL ② 3. ISOEUGENOL ② 4. SODIUM BENZOATE 5. BHT 6. MENTHOL ② 7. CINNAMYL ALCOHOL ② 8. CINNAMAL ② 9. 2-tert-Butyl-4-methoxyphenol (BH/10) 10. TRANS-ANETHOLE ② 11. SORBIC ACID 12. BENZOIC ACID 13. PROPIONIC ACID ② 14. Octyl gallate 15. Hydroperoxides of Limonene ② 16. AMMONIUM PERSULFATE 17. Benzoylperoxide 18. PROPYL GALLATE 19. DODECYL GALLATE 20. Gallate mix -DODECYL GALLATE (D-042) -PROPYL GALLATE (P-021) -Octyl gallate (O-002) Corticosteroid Series	10.0 pet V-001 2.0 pet E-016 2.0 pet I-002 5.0 pet S-001 2.0 pet D-006 2.0 pet M-002 2.0 pet C-013 1.0 pet C-014 A) 2.0 pet B-022 5.0 pet A-015 2.0 pet S-003 5.0 pet B-005 3.0 pet P-018 0.25 pet O-002 0.3 pet H-032A 2.5 pet A-011 1.0 pet B-007 1.0 pet B-007 1.0 pet P-021 0.25 pet D-042 1.0 pet Mx-28B 0.25 0.5 0.25 Revised January 2018
 Budesonide¹ Betamethasone-17-valerate 	0.01 pet B-033B 1.0 pet B-031
3. Triamcinolone acetonide	1.0 pet T-030

Tixocortol-21-pivalate1

Alclomethasone-17,21-dipropionate

	Compound		nc. Veh. (w/w)	Art. No.
6.	Clobetasol-17-propionate	1.0) pet	C-028
7.	Dexamethasone-21-phosphate disodit salt	um 1.0) pet	D-046
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	% 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
		Revised	Janua	ary 2018

Cosmetic Series

C-1000

1.	ISOPROPYL MYRISTATE	20.0	pet	I-003
2.	Amerchol L-101	50.0	pet	A-004
3.	TRIETHANOLAMINE	2.0	pet	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
13.	THIMEROSAL	0.1	pet	T-007
14.	IMIDAZOLIDINYL UREA	2.0	pet	I-001A
15.	METHENAMINE	2.0	pet	H-003
16.	CHLORHEXIDINE DIGLUCONATE ⊗	0.5	aq	C-005
17.	Paraben mix ¹	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		
18.	PHENYL MERCURIC ACETATE 🗞	0.01	aq	P-008
19.	CHLOROACETAMIDE	0.2	pet	C-006
20.	Hexahydro-1,3,5-tris-(2-hydroxyethyl)triazine ♥	1.0	aq	H-002

	Compound	Conc. %(w		Art. No.
21.	Clioquinol	5.0	pet	C-015
22.		1.0	pet	E-005
23.	HYDROABIETYL ALCOHOL	10.0	pet	A-002
24.	PHENYL SALICYLATE	1.0	pet	P-011
25.	BENZOPHENONE-3	10.0	pet	H-014C
26.	SORBITAN SESQUIOLEATE	20.0	pet	S-005
27.	PROPYLENE GLYCOL	5.0	pet	P-019A
	STEARYL ALCOHOL	30.0		S-006
29.		5.0	pet	C-003
	BENZYL SALICYLATE	10.0		B-010B
	2-BROMO-2-NITROPROPANE-1,3-DIOL	0.25	•	B-015A
32.	1 2	0.1	aq	S-002
33.		1.0	aq	C-018
34.		10.0		B-008B
35.		0.02	aq	C-009B
	METHYLCHLOROISOTHIAZOLINONE¹			
	t-BUTYL HYDROQUINONE	1.0	pet	B-028
37.		1.0	pet	H-016
	PROPYL GALLATE	1.0	pet	P-021
39.		0.25		D-042
	QUATERNIUM-15 ¹	1.0	pet	C-007A
	PHENOXYETHANOL	1.0	pet	P-025
	DIAZOLIDINYL UREA	2.0	pet	D-044A
	TOCOPHEROL @	100		T-036
44.	22	2.0	aq	D-047A
45.		0.5	pet	D-049E
46.	Tea tree oil oxidized 🏖	5.0	pet	T-035B
	IODOPROPYNYL BUTYLCARBAMATE	0.2	pet	I-008C
48.	- \	1.0	aq	D-053
	LAURYL POLYGLUCOSE ②	3.0	pet	L-004
50.	• •	2.0	pet	P-036
51.		20.0		S-015
	TOCOPHERYL ACETATE	10.0		T-037B
53.	Turpentine oil oxidized	0.4	pet	T-024B
54.		0.2	aq	M-035B
55.	Musk mix	3.0	pet	Mx-10B
	-MUSK KETONE (M-018) -Musk moskene (M-019)	1.0 1.0		
	-Musk xylene (M-021)	1.0		
56.	,		20	0.005
50. 57.		5.0	aq	O-005 D-065
57.	DECLE GEOCOSIDE, 60	5.0	pet	בסט-ע

	Compound	Conc. %(w/		Art. No.
58.	ETHYLHEXYLGLYCERIN	5.0	pet	E-027
59.	SODIUM METABISULFITE	1.0	pet	S-011
60.	Gallate mix	1.0	pet	Mx-28B
	-DODECYL GALLATE (D-042)	0.25		
	-PROPYL GALLATE (P-021)	0.5		
	-Octyl gallate (O-002)	0.25		
61.	CETEARYL GLUCOSIDE	5.0	pet	C-056
62.	PANTHENOL	5.0	pet	P-042
63.	POLYAMINOPROPYL BIGUANIDE 🗞	2.5	aq	P-043
	Re	vised Ja	anua	ry 2020

Cutaneous Adverse Drug Reaction serie

CAD-1000

1	Deleted 2010		
1. 2.	Deleted 2018	10.0 not	A 020
	Amoxicillin trihydrate	10.0 pet	A-030
3.	Dicloxacillin sodium salt hydrate	10.0 pet	
4.	Cefotaxim sodium salt	10.0 pet	
5.	Doxycycline monohydrate	10.0 pet	D-059
6.	Deleted 2019	40.0	E 004
7.	Erythromycin base	10.0 pet	E-024
8.	Spiramycin base	10.0 pet	
9.	Clarithromycin	10.0 pet	
10.	,	10.0 pet	
11.		10.0 pet	
12.		10.0 pet	
13.	- 1	10.0 pet	
	Carbamazepine	1.0 pet	
15.	•	10.0 pet	
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	H-028
25.	Hydrochlorothiazide	10.0 pet	H-029
26.	Clindamycin phosphate	10.0 pet	C-046

	Compound	Conc. Veh. %(w/w)	Art. No.
27.	Cefradine	10.0 pet	C-047
28.	Cefalexin	10.0 pet	C-048
29.	Ibuprofen	10.0 pet	I-010A
30.	Lamotrigine	10.0 pet	L-009
31.	Cefuroxime sodium	10.0 pet	C-053
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 Novem	ber 2019

Dental Screening

DS-1000

1. 2. 3. 4. 5.	Methyl methacrylate Triethylene glycol dimethacrylate Urethane dimethacrylate Ethylene glycol dimethacrylate Bisphenol A glycerolate dimethacrylate (BIS-GMA)	2.0 2.0 2.0 2.0 2.0	pet pet pet pet pet	M-013 T-018 U-004 E-007 H-013
6.	N,N-dimethyl-4-toluidine	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 methacrylate¹	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.		2.0	pet	E-016
	COLOPHONIUM ¹	20.0	•	C-020
18.	<i>y</i> 1	0.1	pet	E-015
	FORMALDEHYDE¹ ⊘	2.0	aq	F-002B
20.	4-Tolyldiethanolamine	2.0	pet	T-011
21.	11 \ / 1	2.0	pet	C-022
22.	, , ,	1.0	pet	M-025
23.	()	2.0	pet	P-001
24.	()	2.0	pet	A-022
25.	BORNANEDIONE	1.0	pet	C-026
26.	DIMETHYLAMINOETHYL	0.2	pet	D-045

Compound	Conc %(w	. Veh. /w)	Art. No.
METHACRYLATE 27. 1,6-Hexanediol diacrylate 28. DROMETRIZOLE 29. Tetrahydrofurfuryl methacrylate 30. Tin 31. Sodium tetrachloropalladate(II) hydrate 32. CARVONE 33. 2,2-bis(4-(2-Methacryl-oxyethoxy)phenyl)- propane	0.1 1.0 2.0 50.0 3.0 5.0 2.0	pet pet pet pet pet pet pet	H-004 H-016 T-027 T-008 S-017 C-035 M-006B
34. GLUTARAL ² ⊘	0.2 sed .l	pet	G-003A ry 2020
Dental Materials - Patients			-1000
 Methyl methacrylate ② Triethylene glycol dimethacrylate Ethylene glycol dimethacrylate ② Bisphenol A glycerolate dimethacrylate (BIS-GMA) 2,2-bis(4-(2-Methacryl-oxyethoxy)phenyl)-propane (BIS-EMA) 2-Hydroxyethyl methacrylate¹ ② DIMETHYLAMINOETHYL METHACRYLATE ② Tetrahydrofurfuryl methacrylate ② 1,4-Butanediol dimethacrylate ② 1,6-Hexanediol diacrylate Potassium dichromate¹ Mercury ② Cobalt(II)chloride hexahydrate Gold(I)sodium thiosulfate dihydrate Nickel(II)sulfate hexahydrate¹ EUGENOL ② COLOPHONIUM¹ N-Ethyl-p-toluenesulfonamide Palladium(II)chloride CARVONE ② DROMETRIZOLE Peru balsam¹.² ② Epoxy resin, Bisphenol A¹ Sodium tetrachloropalladate(II) hydrate 	1.0 3.0	pet	M-013 T-018 E-007 H-013 M-006B H-010 D-045 T-027 B-017 H-004 P-014A M-005 C-017B G-005B N-002A E-016 C-020 E-015 P-001 C-035 H-016 B-001 E-002 S-017

Compound		Conc. %(w		Art. No.
Dental Materials	s - Staff	D	MS	5-1000
 Methyl methacrylate 2. Triethylene glycol dimeth Ethyleneglycol dimeth Bisphenol A glycerolat (BIS-GMA) 	ethacrylate acrylate ❷	2.0 2.0 2.0 2.0	pet pet pet pet	M-013 T-018 E-007 H-013
5. 2-Hydroxyethyl metha 6. Tetrahydrofurfuryl met 7. 1,4-Butanediol dimeth 8. Mercury ❷ 9. EUGENOL ❷ 10. GLUTARAL² ❷	hacrylate 🗞	2.0 2.0 2.0 0.5 2.0 0.2 Intro	pet pet pet pet pet pet duced	H-010 T-027 B-017 M-005 E-016 G-003A d 2005
Epoxy Series			E-1	000
 METHENAMINE 4,4'-Diaminodiphenylr Triethylenetetramine (2-Phenyl glycidyl ethe Diethylenetriamine, (D Isophorone diamine (I 	TETA) Ø Î r ❷ PETA) ❷	2.0 0.5 0.5 0.25 1.0 0.1	pet pet pet pet pet pet	H-003 D-001 T-019 P-023 D-010 I-006
7. Deleted 2020 8. Ethylenediamine dihyd 9. 3-(Dimethylamino)-1-p 10. Epoxy resin, Bisphend 11. 1,6-Hexanediol diglyci 12. 1,4-Butanediol diglyci 13. m-Xylylenediamine 14. Trimethylolpropane tri 15. 2,4,6-Tris(dimethylam	oropylamine ② ol F dylether ② dyl ether ② glycidyl ether ② inomethyl)phenol ②	1.0 1.0 0.25 0.25 0.25 0.1 0.25 0.5 ised J	pet pet pet pet pet	E-005 D-053 B-035 H-026 B-036 X-001 T-038 T-048 ty 2020
European Photog Baseline Series	oatch	E	P-1	.000
1. BENZOPHENONE-3 2. BENZOPHENONE-4		10.0 2.0	pet pet	H-014C H-023C

	Compound	Conc. %(w		Art. No.
3.	4-METHYLBENZYLIDENE CAMPHOR	10.0	pet	M-024B
4.	ETHYLHEXYL METHOXYCINNAMATE	10.0	pet	E-019C
5.	OCTOCRYLENE	10.0		O-009
6.	ISOAMYL p-METHOXYCINNAMATE	10.0	pet	I-009
7.	PABA	10.0	pet	A-006C
8.	BUTYL METHOXYDIBENZOYLMETHANE	10.0		B-029C
9.	BIS-ETHYLHEXYLOXYPHENOL	10.0	pet	B-037
	METHOXYPHENOL TRIAZINE			
10.	DROMETRIZOLE TRISILOXANE	10.0	pet	D-055
11.	Ketoprofen	1.0		K-002B
12.	2-(4-Diethylamino-2-hydroxy benzoyl)- benzoic acid hexylester	10.0	pet	D-062
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
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.	DECYL GLUCOSIDE ⁵ ⊘	5.0	pet	D-065
	Revis	sed Ja	anuar	y 2014

European Photopatch Extended Series

EPE-1000

1.	BENZOPHENONE-3	10.0 *	not.	H-014C
		10.0 p		
2.	BENZOPHENONE-4	2.0 p	oet	H-023C
3.	4-METHYLBENZYLIDENE CAMPHOR	10.0 p	oet	M-024B
4.	ETHYLHEXYL METHOXYCINNAMATE	10.0 p	oet	E-019C
5.	OCTOCRYLENE	10.0 p	oet	O-009
6.	ISOAMYL p-METHOXYCINNAMATE	10.0 p	oet	I-009
7.	PABA	10.0 p	oet	A-006C
8.	BUTYL METHOXYDIBENZOYLMETHANE	10.0 p	oet	B-029C
9.	BIS-ETHYLHEXYLOXYPHENOL			
	METHOXYPHENOL TRIAZINE	10.0 p	oet	B-037
10.	DROMETRIZOLE TRISILOXANE	10.0 p	oet	D-055
11.	Ketoprofen	1.0 p	oet	K-002B
12.	2-(4-Diethylamino-2-hydroxy benzoyl)-	10.0 p	oet	D-062
	benzoic acid hexylester			

	Compound	Conc. %(w		Art. No.
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
16.	DIETHYLHEXYL BUTAMIDO TRIAZONE	10.0	pet	D-063
17.	Piroxicam	1.0	pet	P-033
18.		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	10.0	pet	P-024B
	ACID			
23.		10.0	pet	H-024B
24.			pet	
25.	Polysilicone-15		pet	
26.	1 7	10.0	pet	D-064
	tetrasulfonate			
	Dexketoprofen	1.0	pet	D-067
	TRICLOSAN	2.0	pet	
29.		5.0	pet	
30.		5.0	pet	
	Fenofibrate		pet	
32.	- 1	0.1	pet	
33.	- I	1.0	pet	
34.	DECYL GLUCOSIDE⁴	5.0	pet	D-065
	Rev	ised J	anuar	y 2014

Fragrance Series

F-1000

C-014
C-013
A-014
E-016
I-002
G-001
O-001
H-008
N-006
M-021
M-028

	Compound	Conc. %(w		Art. No.
12.	Musk moskene	1.0	pet	M-019
13.	MUSK KETONE	1.0	pet	M-018
14.	Jasmine synthetic <a>⊗	2.0	pet	J-001
15.	BENZYL SALICYLATEEC	10.0	pet	B-010B
16.	BENZYL ALCOHOLEC 🗞		sof	B-008B
	VANILLIN		pet	V-001
	Lavender absolute 🗞	2.0	pet	L-001
	Cananga oil 🗞	2.0	pet	C-002
	Rose absolute 🏖	2.0		R-003
	Ylang ylang oil @	2.0		Y-001
	Geranium oil @	2.0	pet	G-002
	Jasmine absolute 🗞	2.0	pet	J-002
	Sandalwood oil @	2.0		S-009
25.	HYDROXYISOHEXYL 3-CYCLOHEXENE	5.0	pet	L-003
00	CARBOXALDEHYDE EC,1			0.000
	CITRALEC	2.0	pet	C-036
	FARNESOL ^{EC}	5.0		F-004
	CITRONELLOL ^{EC}	1.0	pet	
29.	Hexyl cinnamic aldehyde ^{EC}		pet	
	COUMARINEC	5.0	pet	
31.	Fragrance mix II ¹		pet	Mx-25
	-Hexyl cinnamic aldehyde (H-025) ^{EC} -COUMARIN (C-038) ^{EC}	5.0 2.5		
	-FARNESOL (F-004) ^{EC}	2.5		
	-HYDROXYISOHEXYL 3-CYCLOHEXENE			
	CARBOXALDEHYDE (L-003) EC	2.5		
	-CITRAL (C-036) ^{EC}	1.0		
	-CITRONELLOL (C-037) ^{EC} Ø	0.5		
32	Amyl cinnamyl alcohol ^{EC}	5.0	pet	A-036
	Anise alcohol ^{EC}		sof	A-037
	BENZYL BENZOATEEC		pet	B-038
	BENZYL CINNAMATEEC		pet	B-039
	BUTYLPHENYL METHYLPROPIONALEC		pet	B-040
	Treemoss absolute ^{EC} ⊘	1.0	pet	E-026
	α-Isomethyl ionone ^{EC}		pet	I-017
	d-Limonene ^{EC}		pet	L-006C
40.	LINALOOL ^{EC} ⊘		pet	L-005B
	Methyl-2-octynoate ^{EC}	0.2		M-034
42.		5.0	pet	M-033
43.	Hydroperoxides of Linalool ⊗	1.0	pet	H-031A

	Compound	_	onc %(w	. Veh. /w)	Art. No.
44.	Hydroperoxides of Limonene ❷	0	.3	pet	H-032A
45.	Perfume mix ³ ⊘	6	.0	pet	
	-CINNAMYL ALCOHOL(C-013) ^{EC} ◆	1	.0		
	-CINNAMAL (C-014) ^{EC}	1	.0		
	-EUGENOL (È-016) ^{ÉC}	1	.0		
	-GERANIOL (G-001) ^{EC}	1	.0		
	-HYDROXYCITRONELLAL (H-008)EG	1	.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
	•	Revise	L b	anuai	v 2017

Hairdressing Series

H-1000

1. 2. 3. 4. 5.	p-PHENYLENEDIAMINE (PPD)¹ TOLUENE-2,5-DIAMINE SULFATE 2-NITRO-p-PHENYLENEDIAMINE AMMONIUM THIOGLYCOLATE AMMONIUM PERSULFATE	1.0 1.0 1.0 2.5 2.5	pet pet pet aq pet	P-006 D-002 N-004 A-012 A-011
6.	FORMALDEHYDE ¹ Ø	2.0	aq	F-002B
7.	Nickel(II)sulfate hexahydrate ¹	5.0	pet	N-002A
8.	Cobalt(II)chloride hexahydrate ¹	1.0	pet	C-017A
9.	RESORCINOL	1.0	pet	R-001
10.	,	1.0	pet	A-008
11.	p-AMINOPHENOL	1.0	pet	A-009
12.	20.000 2020			
13.		1.0	pet	H-007
14.		25.0	pet	B-001
15.	0.120.107.0217.111122	0.2	pet	C-006
16.	GLYCERYL THIOGLYCOLATE ❷	1.0	pet	G-004
17.	000,	1.0	aq	C-018
18.		0.02	aq	C-009B
	METHYLCHLORO-ISOTHIAZOLINONE¹ €			
19.	2-BROMO-2-NITROPROPANE-1,3-DIOL	0.25	pet	B-015A
20.	Captan	0.5	pet	C-025
21.	1 ,	1.0	pet	C-008
22.	CHLOROXYLENOL (PCMX)	0.5	pet	C-010A
23.		2.0	pet	I-001A
24.	QUATERNIUM-15 ¹	1.0	pet	C-007A

	Compound	Conc %(v	. Veh. //w)	Art. No.
25.	ZINC PYRITHIONE	1.0	pet	Z-006
26.	DIAZOLIDINYL UREA	2.0	pet	D-044A
27.	LAURYL POLYGLUCOSE @	3.0	pet	L-004
28.	OLEAMIDOPROPYL DIMETHYLAMINE	Ø 0.1	aq	O-005
29.	DECYL GLUCOSIDE⁴ ⊘	5.0	pet	D-065
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
38.	PANTHENOL	5.0	pet	P-042
	R	evised [ecen)	nber 2019

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)	0.1	pet	I-006
6.	Hexamethylene diisocyanate (HDI)	0.1	pet	H-022
7.	Polymeric diphenylmethane diisocyanate	2.0	pet	P-038
	(PMDI) ⊘			

Revised March 2013

Leg Ulcer Series

LU-1000

1.	Amerchol L-101	50.0	pet	A-004
2.	Fusidic acid sodium salt	2.0	pet	F-003
3.	CHLORHEXIDINE DIGLUCONATE ⊗	0.5	aq	C-005
4.	BENZALKONIUM CHLORIDE ❷	0.1	aq	B-027
5.	Nitrofurazone	1.0	pet	N-005
6.	Bacitracin	5.0	pet	B-032A
7.	CETEARYL ALCOHOL	20.0	pet	C-033
8.	BHT	2.0	pet	D-006
9.	Chloramphenicol	5.0	pet	C-032

	Compound	Conc. Veh. %(w/w)	Art. No.
10.	Benzoylperoxide	1.0 pet	B-007
11.	PROPYLENE GLYCOL	5.0 pet	P-019A
12.	Propolis ¹	10.0 pet	P-022
13.	THIMEROSAL	0.1 pet	T-007
14.	SORBIC ACID	2.0 pet	S-003
	Eosin	5.0 pet	E-022
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
19.	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 ⊘	12.0 pet	Mx-14
	-Beech tar (B-002)	3.0	
	-Birch tar (B-011) ❷	3.0	
	-Juniperus oxycedrus extract (J-003) ⊗	3.0	
	-Pine tar (P-012) <	3.0	

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 ¹	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

	Compound	Conc. Veh. %(w/w)	Art. No.	
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	
15.	Tobramycin	20.0 pet	T-050	
16.	Vancomycin hydrochloride ⊗	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	
20.	Diphenhydramine hydrochloride	1.0 pet	D-021	
21.	Polymyxin B sulfate	5.0 pet	P-026	
		Revised January 2018		

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.	Cobalt(II)chloride hexahydrate ¹	1.0	pet	C-017A
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
	•			

	Compound	Conc. %(w		Art. No.
24.	Vanadium(III)chloride	1.0	pet	V-003
	MANGANÈSE 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
29.	FERRIC CHLORIDE	2.0	pet	I-016
30.	PHENYL MERCURIC ACETATE < ⊘	0.01	aq	P-008
31.	Potassium dicyanoaurate(I) <a>⊗	0.1	aq	P-015
32.	SILVER NITRATE ❷	1.0	aq	S-007
33.	Cadmium chloride	1.0	aq	C-001
34.	Ammonium hexachloroiridate(IV)	0.1	aq	A-034
35.	Indium(III)chloride ⊘	10.0	aq	I-011
36.	Nickel(II)sulfate hexahydrate ¹	5.0	pet	N-002A
	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) ❷	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
55.	Potassium dichromate	0.5	pet	P-014A
	Revised January 2020			

(Meth) Acrylate Series Adhesives, Dental & Other

MA-1000

	Trancsives, Bentar & Other		11111 1000		
1.	Methyl methacrylate 🏖	2.0	pet	M-013	
2.	BUTYL METHACRYLATE 🗞	2.0	pet	B-021	
3.	2-Hydroxyethyl methacrylate¹	2.0	pet	H-010	

	Compound	Conc %(w	. Veh. //w)	Art. No.	
4. 5. 6. 7. 8. 9.	Hydroxypropyl methacrylate Ethylene glycol dimethacrylate Triethylene glycol dimethacrylate 1,4-Butanediol dimethacrylate Urethane dimethacrylate Bisphenol A dimethacrylate (BIS-MA) Bisphenol A glycerolate dimethacrylate (BIS-GMA)	2.0 2.0 2.0 2.0 2.0 2.0 2.0	pet pet pet pet pet pet pet	H-018 E-007 T-018 B-017 U-004 M-007 H-013	
11. 12. 13. 14.	1,6-Hexanediol diacrylate Tetrahydrofurfuryl methacrylate ▼ Tetraethylene glycol dimethacrylate	0.1 2.0 2.0 0.2	pet pet pet pet	H-004 T-027 T-029 D-045	
15. 16.	ISOBORNYL ACRYLATE	0.1	pet pet anuar	E-023 I-019 y 2020	
	(Meth) Acrylate Series Nails-Artificial MN-1000				
_				1000	
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	Butyl acrylate ETHYL METHACRYLATE BUTYL METHACRYLATE 2-Hydroxyethyl methacrylate Hydroxypropyl methacrylate Ethylene glycol dimethacrylate Triethylene glycol dimethacrylate 1,6-Hexanediol diacrylate Trimethylolpropane triacrylate Tetrahydrofurfuryl methacrylate Ethyl acrylate 2-Hydroxyethyl acrylate Triethylene glycol diacrylate Rer	0.1 2.0 2.0 2.0 2.0 2.0 2.0 0.1 0.1 2.0 0.1 0.1	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	

Ethyl acrylate ❷ 2-Ethylhexyl acrylate ❷ 2-Hydroxyethyl acrylate ❷

1.

2.

73

E-004

E-009

H-009

0.1

0.1

0.1

pet

pet

pet

	Compound	Conc %(w	. Veh. //w)	Art. No.
4.	Hydroxypropyl acrylate <i>⊗</i>	0.1	pet	H-017
5.	Methyl methacrylate < ⊘	2.0	pet	M-013
6.	ETHYL METHACRYLATE < <p></p>	2.0	pet	E-012
7.	BUTYL METHACRYLATE ②	2.0	pet	B-021
8.	2-Hydroxyethyl methacrylate¹	2.0	pet	H-010
9.	Hydroxypropyl methacrylate <a>®	2.0	pet	H-018
10.	, , ,	2.0	pet	E-007
11.	, , ,	2.0	pet	T-018
12.	, ()))))))	2.0	pet	M-006B
	propane (BIS-EMA)			
13.	1,4-Butanediol diacrylate	0.1	pet	B-016
14.	,	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 🏖	0.1	pet	P-002
19.	Oligotriacrylate (OTA 480) 🗞	0.1	pet	O-003
20.	ISOBORNYL ACRYLATE	0.1	pet	I-019
21.	, , ,	0.1	pet	T-017
22.	N,N-Methylene-bisacrylamide	1.0	pet	M-023
23.	Deleted 2020			
24.	Deleted 2020			

Revised January 2020

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	0.1	pet	B-003B
10.	Hexahydro-1,3,5-tris-(2-hydroxyethyl)triazine ⊘	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

	Compound	Conc. %(w		Art. No.
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 <a>⊗	1.0	pet	A-017
20.	Bioban CS 1135 ❷	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
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 < ⊘	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	S		
32.	PHENOXYETHANOL < ⊘	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
	Revis	sed Ja	anuary	/ 2014

Photographic Chemicals Series P-1000

Deleted October 2018

Plant Series	PL-1000
 Anthemis nobilis extract Diallyl disulfide Arnica montana extract Taraxacum officinale extract Achillea millefolium extract Propolis¹ Chrysanthemum Cinerariaefolium extract Sesquiterpene lactone mix¹ Alantolactone (A-003) Costunolide (C-039) Dehydrocostus lactone (D-056) 	1.0 pet C-029 1.0 pet D-048 0.5 pet A-024 2.5 pet T-032 1.0 pet A-025 10.0 pet P-022 1.0 pet C-031 0.1 pet Mx-18 0.033 0.033 0.033

	Compound	Conc %(w	. Veh. /w)	Art. No.
9.	α-Methylene-γ-butyrolactone 🏖	0.01	pet	M-026
10.	Tanacetum vulgare extract ⊗	1.0	pet	T-033
11.	Alantolactone	0.03	3pet	A-003B
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		
13.	Parthenolide	0.1	pet	P-029
14.	Chamomilla recutita extract ⊗	1.0	pet	C-051
15.	(+)-Usnic acid	0.1	pet	U-005
16.	Atranorin	0.1	pet	A-016
17.	Evernic acid	0.1	pet	E-017
18.	2-Methoxy-6-n-pentyl-4-benzoquinone	0.01	pet	M-008
	Rev	ised N	lovem	ber 2018

Plastics & Glues Series

PG-1000

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.		1.0	pet	B-013
11.	Tricresyl phosphate	5.0	pet	T-015
12.	Phenol formaldehyde resin (PFR2) 🗞	1.0	pet	P-005
13.	1 71	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
	2-Phenylindole	2.0	pet	P-007
	2-tert-Butyl-4-methoxyphenol (BHA)	2.0	pet	B-022
	HYDROABIETYL ALCOHOL	10.0		A-002
	4-tert-Butylphenol	1.0	pet	B-023
	2-Monomethylol phenol	1.0	pet	M-015
22.	N,N´-Diphenylthiourea (DPTU)	1.0	pet	D-025

Compound			Art. No.
-n-Octyl-4-isothiazolin-3-one ℰ riglycidyl isocyanurate (TGIC) Deleted 2020	0.1 0.5	pet pet	O-004 T-028
	sed J		-
obel Additives Selles		1/-1	.000
etramethylthiuram disulfide (TMTD) etramethylthiuram monosulfide (TMTM) etraethylthiuram disulfide (TETD)	1.0 1.0 1.0	pet pet pet	T-005 T-006 T-002
I-Cyclohexyl-N-phenyl-4-phenylenediamine I,N´-Diphenyl-p-phenylenediamine (DPPD)	1.0 1.0	pet pet	D-019 C-024 D-024 I-004
PPD) ¹ -Mercaptobenzothiazole (MBT) ¹ I-Cyclohexyl-2-benzothiazolesulfenamide Dibenzothiazyl disulfide (MBTS) -(4-Morpholinylmercapto)benzothiazol	2.0 1.0 1.0 1.0	pet pet pet pet pet	M-003A C-023 D-003 M-016
,3-Diphenylguanidine linc diethyldithiocarbama (ZDC) INC DIBUTYLDITHIOCARBAMATE (ZBC I,N-Di-2-naphtyl-4-phenylenediamine	1.0 1.0)1.0 1.0	pet pet pet pet	D-022 Z-003 Z-002 D-017
I-Phenyl-2-naphtylamine (PBN) METHENAMINE ,4´-Diaminodiphenylmethane (MDA) I,N´-Diphenylthiourea (DPTU)	1.0 2.0 0.5 1.0	pet pet pet pet	P-009 H-003 D-001 D-025
,2,4-Trimethyl-1,2-dihydroquinoline I,N´-Diethylthiourea I,N´-Dibutylthiourea odecyl mercaptan ⊘	1.0 1.0 1.0 0.1	pet pet pet pet	Z-004 T-020 D-039 D-038 D-043
	riglycidyl isocyanurate (TGIC) Peleted 2020 Revisor Additives Series Setramethylthiuram disulfide (TMTD) Setramethylthiuram monosulfide (TMTM) Setramethylthiuram disulfide (TETD) Setramethylenethiuram disulfide Setramethylenethiuram disulfide Setramethylenethiuram disulfide Setramethyl-2-phenylenediamine (DPPD) Setramethyle-2-benzothiazole (MBT) Setramethyldithiocarbama (MBTS) Setramethyldithiocarbama (ZDC) Setramethyldithiocarbama (ZDC) Setramethyle-2-naphtylamine (PBN) Setramethylamine (PBN) Setramethylamine (PBN) Setrameth	**Morn-Octyl-4-isothiazolin-3-one **O.1. riglycidyl isocyanurate (TGIC) 0.5 Deleted 2020 Revised Jober Additives Series Setramethylthiuram disulfide (TMTD) 1.0 Setramethylthiuram monosulfide (TMTM) 1.0 Setraethylthiuram disulfide (TETD) 1.0 Setraethylthiuram disulfide (TETD) 1.0 Setraethylthiuram disulfide (TETD) 1.0 Setraethylthiuram disulfide (MBT) 1.0 Setraethylthiazole (MBT) 1.0 Setraethylthiazole (MBT) 1.0 Setraethylthiazole (MBTS) 1.0 Setraethylthiaz	**(w/w) -n-Octyl-4-isothiazolin-3-one 0.1 pet riglycidyl isocyanurate (TGIC) 0.5 pet oleleted 2020 Revised Januar

25. N-(Cyclohexylthio) phthalimide

27. 4,4`-Dithiodimorpholine

26. Thiourea

pet 1.0 pet D-054 Revised November 2018

1.0

0.1

pet C-034

T-026

1.	N-Isopropyl-N-phenyl-4-phenylenediamine (IPPD) ¹	0.1	pet	I-004
2.	GLUTARAL ² Ø	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
0.	-Dipentamethylenethiuram disulfide (D-019)	0.25	per	IVIX-U I
	. ,	0.25		
	-Tetraethylthiuram disulfide (TETD) (T-002) -Tetramethylthiuram disulfide (TMTD) (T-005)			
	-Tetramethylthiuram monosulfide (TMTM)	0.25		
	(T-006)	0.25		
7.	Potassium dichromate ¹	0.5	pet	P-014A
8.	4-tert-Butylphenolformaldehyde resin (PTBP) ¹		pet	B-024
9.	p-PHENYLENEDIAMINE (PPD) ¹	1.0	pet	P-006
10.		5.0	pet	N-002A
11.		20.0		C-020
	FORMALDEHYDE¹ ⊘	2.0	aq	F-002B
13.	, 1 , -/	1.0	pet	D-025
14.	1 / /	2.0	pet	M-003A
	N,N'-Diethylthiourea	1.0	pet	D-039
	1,3-Diphenylguanidine	1.0	pet	D-022
	N,N'-Dibutylthiourea	1.0	pet	D-038
	Epoxy resin, Bisphenol A ¹	1.0	pet	E-002
	Dodecyl mercaptan ®	0.1	pet	D-043
20.		0.02	aq	C-009B
04	METHYLCHLORO-ISOTHIAZOLINONE¹ A Australia and a large and a		4	۸ ۵۵۶
	4-Aminoazobenzene	0.25		A-005
	2-n-Octyl-4-isothiazolin-3-one <a>♠	0.1	pet	O-004
23.	, , , , , , , , , , , , , , , , , , ,	1.0	pet	D-054
24.	,	0.01		D-066B
	Revis	sea N	iovem	ber 2018

Sunscreen Series SU-1000

1.	BUTYL METHOXYDIBENZOYL-	10.0 pet	B-029C
	METHANE		
2.	PABA	10.0 pet	A-006C
3.	HOMOSALATE	5.0 pet	H-024A
4.	4-METHYLBENZYLIDENE CAMPHOR	10.0 pet	M-024B
5.	ETHYLHEXYL DIMETHYL PABA	10.0 pet	E-018D

6.	BENZOPHENONE-3	10.0 pet	H-014C
7.	ETHYLHEXYL METHOXYCINNAMATE	10.0 pet	E-019C
8.	BENZOPHENONE-10	10.0 pet	H-020B
9.	PHENYLBENZIMIDAZOLE SULFONIC	10.0 pet	P-024B
	ACID		
10.	BENZOPHENONE-4	2.0 pet	H-023C
11.	DROMETRIZOLE TRISILOXANE	10.0 pet	D-055
12.	OCTOCRYLENE	10.0 pet	O-009
13.	ETHYLHEXYL SALICYLATE	5.0 pet	O-007A
14.	ETHYLHEXYL TRIAZONE	10.0 pet	O-010
15.	ISOAMYL p-METHOXYCINNAMATE	10.0 pet	I-009
16.	BIS-ETHYLHEXYLOXYPHENOL	10.0 pet	B-037
	METHOXYPHENOL TRIAZINE		
17.	Methylene bis-benzotriazolyl	10.0 pet	M-037
	tetramethylbutylphenol		
18.	2-(4-Diethylamino-2-hydroxybenzoyl)-	10.0 pet	D-062
	benzoic acid hexylester		
19.	DIETHYLHEXYL BUTAMIDO TRIAZONE	10.0 pet	D-063
20.	Disodium phenyl dibenzimidazole	10.0 pet	D-064
	tetrasulfonate		
21.	DECYL GLUCOSIDE⁴	5.0 pet	D-065
	Rev	∕ised Janua	ry 2014

Te	extile Colours & Finish		TF-	1000
1.	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.	Deleted 2020			
6.	DISPERSE BLUE 3	1.0	pet	D-026
7.	Disperse Blue 35	1.0	pet	D-027
8.	Dimethylol dihydroxy ethylene urea <a>⊗	4.5	aq	D-012
9.	Dimethyl dihydroxy ethylene urea <a>⊗	4.5	aq	D-052
10.	Dimethylol dihydroxy ethylene urea,	5.0	aq	D-050
	modified ❷			
11.	Disperse Blue 106	1.0	pet	D-040
12.	Ethyleneurea, melamine formaldehyde mix ² 🗞	5.0	pet	Mx-16
	-Dimethylol dihydroxy ethylene urea (D-012) ℰ	4.0		
	-Melamine formaldehyde (M-001)	1.0		
13.	Urea formaldehyde resin	10.0	pet	U-001
14.	Melamine formaldehyde (Kaurit M70) ³	7.0	pet	M-001

16. 17. 18. 19. 20. 21. 22. 23.	Acid Yellow 61 Disperse Brown 1 Disperse Yellow 9	1.0 1.0 5.0 1.0 1.0 1.0 1.0	pet pet pet pet pet pet pet pet	A-026 D-030 D-037 D-041 B-026 R-004B
25. 26.	Reactive Orange 107 Reactive Red 123	1.0 1.0	pet pet	R-007B R-008B
28. 29. 30. 31.	Acid Red 359	1.0 1.0 5.0 5.0 5.0 1.0 0.5	pet pet pet pet pet pet	R-011B A-027
34.	Textile dye mix ² -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)	6.6 1.0 1.0 1.0 1.0 1.0 0.3	pet	Mx-30

Revised January 2020

Various Haptens

V-1000

Deleted November 2018

Conc %(w/w) & Vehicle

List of Topical 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
- ⁶ Present in national series. Visit www.chemotechnique.se for further information.
- EC Directive 2003/15/EC relating to cosmetic products

Art. No.	Serial no.	Conc %(v	,		
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 pe	t Alantolactone		
A-004	ICB-7, C-2, O-26, LU-1, NA-7, NAE-7, N	•	50.0 pet Amerchol L-101		
A-005	SH-21	0.25 pet	: 4-Aminoazobenzene		
A-006A	Deleted 2019		(PABA)		
A-006B	Deleted 2019		(PABA)		
A-006C	EP-7, EPE-7, SU-2	10.0 pet	PABA		
A-007	Deleted 2018		(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 ❷		
A-016	PL-16	0.1 pet	Atranorin		
A-017	O-19	1.0 pet	7-ETHYLBICYCLOOXAZOLIDINE 🗞		
A-018	PG-9	1.0 pet	Azodiisobutyrodinitrile		

Art. No.	Serial no.	Conc %(\ & Vehicle	
A-019	SH-4	1.0 pet	Acid Yellow 36
A-020	V-24	5.0 pet	Amylocaine hydrochloride
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, NAE-55 NAC-75, AC-73	, 0.1 aq	Amidoamine 🏖
A-030	CAD-2	10.0 pet	Amoxicillin trihydrate
A-031	CAD-18	10.0 pet	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, H-14, IS-7,	25.0 pet	Peru balsam²
	DMP-22, LA-15,	NA-19, N	AE-19, NAC-19, ECB-15, AC-10
B-002	Deleted 2018		(Beech tar)
B-003B	ECB-40, O-9	0.1 pet	BENZISOTHIAZOLINONE
B-004	ICB-1, NA-1 NAE-1, NAC-1, A	5.0 pet AC-26	Benzocaine
B-005	B-12, AC-77	5.0 pet	BENZOIC ACID
B-006	O-14,P-10	1.0 pet	BENZOTRIAZOLE
B-007	ICB-70, B-17, PG-7, LU-10, NAC-70	1.0 pet	Benzoylperoxide
B-008B	ICB-58, C-34, F-16, P-12, NAE-59, NAC-58		BENZYL ALCOHOL Ø
B-009	Deleted 2015		(BENZYLPARABEN)
B-010A	Deleted 2011		(BENZYL SALICYLATE)

Art. No.		Conc %(\ & Vehicle	
B-010B	ICB-52. C-30 NAC-52, F-15	10.0 pet	BENZYL SALICYLATE
B-011	Deleted 2018		(Birch tar)
B-013	PG-10	1.0 pet	Bisphenol A
B-014	6	1.0 pet	Bithionol
B-015A	C-31, H-19, O-29	0.25 pet	2-BROMO-2-NITROPROPANE-1,3-DIOL
B-015B	ICB-30, NA-30 NAE-30, NAC-30 ECB-32, AC-23		2-BROMO-2-NITROPROPANE-1,3-DIOL
B-016	MP-13	0.1 pet	1,4-Butanediol diacrylate
B-017	DS-8, MA-7, DMP-9, DMS-7	2.0 pet	1,4-Butanediol dimethacrylate 🗞
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	72.0 pet	BUTYL METHACRYLATE 🗞
B-022	ICB-37, B-9, C-6, PG-18, NAC-37	2.0 pet	2-tert-Butyl-4-methoxyphenol (BHA)
B-023	PG-20	1.0 pet	4-tert-Butylphenol
B-024	S-16, ICB-15, PG-13, SH-8, NA IS-11, LA-16, NA NAC-15, ECB-16	∖- 15,	4-tert-Butylphenolformaldehyde resin (PTBP)
B-025	Deleted 2018		(Tolu balsam absolute ♥)
B-026	TF-21	1.0 pet	Basic Red 46
B-027	LU-4, AC-60	0.1 aq	BENZALKONIUM CHLORIDE 🗞
B-028	C-36	1.0 pet	t-BUTYL HYDROQUINONE
B-029B B-029C	Deleted 2019 SU-1, EP-8, EPE-8	10.0 pet	(BUTYL METHOXYDIBENZOYLMETHANE) 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, NA-23 NAE-23, NAC-23,		Bacitracin
B-033A	ICB-45, NA-45, NAE-45, NAC-45,	0.1 pet AC-30	Budesonide
B-033B	S-24, CS-1, LU-17, IS-15, LA-24, ECB-24	0.01 pet	Budesonide
B-035	E-10	0.25 pet	Epoxy resin, Bisphenol F

Art. No.		Conc %(\ & Vehicle	
B-036	E-12	0.25 pet	1,4-Butanediol diglycidyl ether
B-037	SU-16, EP-9,		BIS-ETHYLHEXYLOXYPHENOL
B-038 B-039 B-040	EPE-9 F-34 F-35 F-36	10.0 pet 10.0 pet	XYPHENOL TRIAZINE BENZYL BENZOATE BENZYL CINNAMATE BUTYLPHENYL METHYLPROPIONAL
B-041 B-042 B-043	EP-18, EPE-18 CS-10 ME-17	2.0 pet 1.0 pet 5.0 pet	Benzydamine hydrochloride Betamethasone 17,21-dipropionate Bufexamac
B-044 C-001 C-002	MET-54 MET-33 F-19	1.0 pet 1.0 aq 2.0 pet	Beryllium(II)sulfate tetrahydrate Cadmium chloride Cananga oil ✓
C-003	C-29	5.0 pet	CETYLALCOHOL
C-004 C-005 C-006	V-3 C-16, LU-3, AC-52 H-15, C-19, O-12, LU-24	0.5 aq 0.5 aq 0.2 pet	CHLORHEXIDINE DIACETATE CHLORHEXIDINE DIGLUCONATE CHLOROACETAMIDE
C-007A	S-21, H-24, C-40	1.0 pet	QUATERNIUM-15
C-007B	LA-21, ECB-21 ICB-14, IS-16 NA-14, NAE-14,	2.0 pet	QUATERNIUM-15
C-008	NAC-14, AC-18 C-11, H-21, O-2, LU-16, AC-59	1.0 pet	p-CHLORO-m-CRESOL
C-009A	LA-23 ⁶ , AC-17		METHYLISOTHIAZOLINONE + METHYLCHLOROISOTHIAZOLINONE ❖
C-009B	S-23, ICB-78, C-35, IS-17, O-3 SH-20, H-18,		METHYLISOTHIAZOLINONE + METHYLCHLOROISOTHIAZOLINONE ❷
C-009C	NA-25, NAE-25,		ECB-23 METHYLISOTHIAZOLINONE +
C-009D	V-38	0.02 pet	METHYLCHLOROISOTHIAZOLINONE® METHYLISOTHIAZOLINONE + METHYLCHLOROISOTHIAZOLINONE®
	C-12, H-22, O-3	•	CHLOROXYLENOL (PCMX)
C-010B	ICB-35, NAE-35 NAC-35, AC-54	1.0 pet	CHLOROXYLENOL (PCMX)
C-011	EPE-32	0.1 pet	Chlorpromazine hydrochloride
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 NA-6, NAE-6, NA		CINNAMAL 🗞
C-015	C-21, LA-8	5.0 pet	Clioquinol
C-016	V-4	5.0 pet	Coal tar 🗞

Art. No.	Serial no.	Conc %(v & Vehicle	
C-017A	S-5, ICB-43,	1.0 pet	Cobalt(II)chloride hexahydrate
	DS-12, H-8, IS-2		
			C-43, ECB-5, AC-12, MET-6
C-017B	DMP-13	0.5 pet	
C-018	ICB-76, C-33, H-1 LA-30, NA-49, NAE-49, NAC-76		COCAMIDOPROPYL BETAINE &
C-019	ICB-46, O-30 NAE-63, NAC-4	0.5 pet 6, AC-58	COCAMIDE DEA
C-020	S-9, ICB-3, DS-17, SH-11,	20.0 pet	COLOPHONIUM
		-3, NAE-3,	LA-9, NAC-3, ECB-9, AC-7
C-021	MET-11		Copper(I)oxide
C-022	DS-21, MET-9		Copper(II)sulfate pentahydrate
C-023	R-9	1.0 pet	
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	Deleted 2019		(Cyclohexanone resin)
C-028	ICB-11, CS-6 NAE-54, NAC-1	1.0 pet 1, AC-72	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, AC-69	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 ⊘
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-039	Only available a	s a part of	Mx-18
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		Ciprofloxacin hydrochloride
C-044	CAD-14	1.0 pet	'
C-045	CAD-17	5.0 pet	Captopril

10.0 pet Clindamycin phosphate

C-046

CAD-26

Art. No.	Serial no.	Conc %(\ & Vehicle	
C-047	CAD-27	10.0 pet	Cefradine
C-048	CAD-28	10.0 pet	Cefalexin
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 ⊗
C-052	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
C-056	C-61	5.0 pet	CETEARYL GLUCOSIDE
D-001	E-2,I-3,R-18	0.5 pet	4,4'-Diaminodiphenylmethane (MDA)
D-002	H-2	1.0 pet	TOLUENE-2,5-DIAMINE SULFATE
D-003	R-10	1.0 pet	Dibenzothiazyl disulfide (MBTS)
D-005A	V-16	5.0 pet	Dibucaine hydrochloride
D-005B	ICB-69, NAE-52 NAC-69	, 2.5 pet	Dibucaine hydrochloride
D-006	B-5, C-7, PG-5 LU-8, AC-78	2.0 pet	ВНТ
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	Deleted 2018		(N,N-DIETHYLTOLUENE-2,5-DIAMINE HCL)
D-012	TF-8	4.5 aq	Dimethylol dihydroxy ethylene urea 🗞
D-014	Deleted 1999		(Dimethylol propyleneurea)
D-015	O-20	1.0 pet	Bioban CS 1135 🗞
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	ME-20	1.0 pet	Diphenhydramine hydrochloride
D-022	ICB-17, R-12, SH-16, NA-17, N	1.0 pet IAE-17, N	1,3-Diphenylguanidine AC-17, AC-68
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)

Art. No.	Serial no.	Conc %(v & Vehicle	•
D-025	PG-22, R-19, SH-13	1.0 pet	N,N´-Diphenylthiourea (DPTU)
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	Deleted 2019		(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, NAC-25,	1.0 pet AC-76	DISPERSE ORANGE 3
D-033	Deleted 1999		(Disperse Orange 13)
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, NAC-51	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 <a>⊗
D-044A	C-42, H-26, IS-24, LU-25, LA-31, ECB-33	2.0 pet	DIAZOLIDINYL UREA
D-044B	6	2.0 aq	DIAZOLIDINYL UREA 🗞
D-044C	ICB-21, NA-21 NAE-21, NAC-2	1.0 pet 1, AC-25	DIAZOLIDINYL UREA
D-045	DS-26, MA-14, DMP-7	0.2 pet	DIMETHYLAMINOETHYL METHACRYLATE ❷
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, NA-22 NAE-22, NAC-5	1.0 pet 6, AC-5	DMDM HYDANTOIN³ <a>⊗
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, LA-2		CR 26 AC 10
D-050	NA-27, NAE-27, TF-10	5.0 aq	Dimethylol dihydroxy ethylene urea, 87

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

	`		
			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, AC-42	1.0 aq	3-(Dimethylamino)-1-propylamine
D-054	SH-23, R-27	1.0 pet	4,4`-Dithiodimorpholine
D-055	SU-11, EP-10, EPE-10	10.0 pet	DROMETRIZOLE TRISILOXANE
D-056	Only available as	a part of	Mx-18
D-057	ICB-61, CS-9 NAE-57, NAC-61		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
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, SU EPE-34, NA-47,		DECYL GLUCOSIDE⁴ ፟፟ NAC-53, ECB-42, AC-45
D-066A	Deleted 2018		(Dimethyl fumarate ∅)
D-066B	SH-24	0.01 pet	Dimethyl fumarate
D-067	EPE-27	1.0 pet	Dexketoprofen
E-001	Deleted 2019		(Epoxy acrylate)
E-002	S-14, ICB-13, IS-10, SH-18, DN LA-14, NA-13, NA NAC-13, ECB-14,	E-13,	Epoxy resin, Bisphenol A
E-003	Deleted 2011		(Ethoxyquin)
E-004	ICB-39, MN-11, MP-1, NA-39, NAE		Ethyl acrylate ⊘ -39, AC-50
E-005	ICB-12, C-22, O-15, E-8, P-9,		Ethylenediamine dihydrochloride
	NA-12, NAE-12, NA		
E-006	V-2	1.0 pet	Ethylenediaminetetraacetic acid disodium salt dihydrate (Na ₂ EDTA)

Art. No.		Conc %(v & Vehicle	
E-007	DS-4, MA-5, MN-6, MP-10, DMP-3, DMS-3	2.0 pet	Ethylene glycol dimethacrylate 🗞
E-008	Deleted 2018		(Ethylene urea)
E-009	MP-2	0.1 pet	2-Ethylhexyl acrylate 🗞
E-010	V-8	3.0 pet	ETHYLPARABEN
E-011	Deleted 2018		(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	Deleted 2018		(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
E-016	B-2, DS-16, F-4, DMP-16, DMS-9	2.0 pet	EUGENOL 🗞
E-017	PL-17	0.1 pet	Evernic acid
E-018B	Deleted 2019		(ETHYLHEXYL DIMETHYL PABA)
E-018C	Deleted 2019		(ETHYLHEXYL DIMETHYL PABA)
E-018D	SU-5	10.0 pet	ETHYLHEXYL DIMETHYL PABA
E-019B	Deleted 2019		(ETHYLHEXYL METHOXYCINNAMATE)
E-019C	SU-7, EP-4, EPE-4 AC-79	10.0 pet	ETHYLHEXYL METHOXYCINNAMATE
E-020	Deleted 2019		(Epoxy resin, cycloaliphatic)
E-021	ME-11	1.0 alc	Econazole nitrate 🏖
E-022	LU-15	5.0 pet	Eosin
E-023	MA-15, AC-74	•	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, AC-70	5.0 pet	ETHYLHEXYLGLYCERIN
F-001	6	1.0 pet	2,2'-THIOBIS(4-CHLOROPHENOL)
F-002A	AC-21,6	1.0 aq	FORMALDEHYDE ②
F-002B	S-18, ICB-77, DS-19, H-6, IS-5 SH-12, NA-11, N		FORMALDEHYDE ® AC-77 FCB-18
F-002C	LA-18 ⁶	1.0 pet	FORMALDEHYDE ³ Ø
F-003	ICB-68, LU-2, ME-13, NAE-62 NAC-68	2.0 pet	Fusidic acid sodium salt

Art. No.		Conc %(v & Vehicle	
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, NA-29 NAE-29, NAC-29	0.5 pet	GLUTARAL ²
G-004	ICB-40, H-16, NAC-40	1.0 pet	GLYCERYL THIOGLYCOLATE
G-005A	ICB-38, MET-10 NAC-38	0.5 pet	Gold(I)sodium thiosulfate dihydrate
G-005B	DS-14, DMP-14, MET-8, AC-28	2.0 pet	Gold(I)sodium thiosulfate dihydrate
G-006	ME-5	20.0 pet	Gentamicin sulfate
G-007	MET-44	1.0 pet	Gallium(III)oxide
H-001	6	1.0 pet	Hexachlorophene
H-002	C-20, O-10	1.0 aq	Hexahydro-1,3,5-tris-(2-hydroxyethyl) triazine ⊘
H-003	C-15, E-1, R-17	2.0 pet	METHENAMINE
H-004	DS-27, MA-11, MN-8, MP-14, DMP-10	0.1 pet	1,6-Hexanediol diacrylate
H-005	O-23	1.0 pet	Hydrazine sulfate
H-006	Deleted 2019		(HYDROGEN PEROXIDE)
H-007	H-13, PG-1, P-5	1.0 pet	HYDROQUINONE
H-008	F-8	2.0 pet	HYDROXYCITRONELLAL
H-009	MN-12, MP-3	0.1 pet	2-Hydroxyethyl acrylate 🏖
H-010	DMS-5, DMP-6, DS-13, ECB-8,	2.0 pet	
	ICB-55, MA-3, M NA-34, NAE-56,		S-8
H-011	Deleted 2018		(HYDROXYLAMINE HCL
H-012	Deleted 2018		(HYDROXYLAMINE SULFATE ♥)
H-013	DS-5, MA-10, DMP-4, DMS-4	2.0 pet	Bisphenol A glycerolate dimethacrylate (BIS-GMA)
H-014C	ICB-34, C-25, DS-7, SU-6, AC- EP-1, EPE-1, NA	55,	BENZOPHENONE-3 C-34

Art. No.		Conc %(v & Vehicle	
H-015	O-21	1.0 pet	TRIS(HYDROXYMETHYL)NITRO- METHANE
H-016	C-37, DS-28, PG-6, DMP-21	1.0 pet	DROMETRIZOLE
H-017	MP-4	0.1 pet	Hydroxypropyl acrylate 🗞
H-018	MA-4, MN-5, MP-9	2.0 pet	Hydroxypropyl methacrylate 🏖
H-019	SH-5	1.0 pet	Hydroquinone monobenzylether
H-020B	EPE-21, SU-8	10.0 pet	BENZOPHENONE-10
H-021A	CS-8	1.0 alc	Hydrocortisone-17-butyrate ℰ
H-021B	IS-26, LA-39, AC-37	1 1.0 pet	Hydrocortisone-17-butyrate
H-022	I-6	0.1 pet	Hexamethylene diisocyanate (HDI) 🗞
H-023B	Deleted 2019		(BENZOPHENONE-4)
H-023C	EP-2, EPE-2, SU-10, AC-61	2.0 pet	BENZOPHENONE-4
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 NA-40, NAE-40, NAC-74, ECB-36	·	Hydroperoxides of Linalool &
H-031B	F-46, ECB-37	0.5 pet	Hydroperoxides of Linalool 🗞
H-032A	ICB-60, B-15, F-44, O-27,	0.3 pet	Hydroperoxides of Limonene &
	NA-36, NAE-36,	NAC-60,	ECB-38
H-032B	F-47, ECB-39	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, H-23, LU-26, LA-4 NA-5, NAE-5, NAC		IMIDAZOLIDINYL UREA 34, AC-29
I-001B	Deleted 2019	•	(IMIDAZOLIDINYL UREA)
I-002	B-3, F-5	2.0 pet	ISOEUGENOL @
I-003	ICB-59, C-1,	20.0 pet	ISOPROPYL MYRISTATE

Art. No.		Conc %(v & Vehicle	
	NAC-59		
I-004	S-11, IS-28, SH-1, R-7, LA-11 , ECB-11	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, NA-37, NAE-37, NAC-63	0.2 pet	IODOPROPYNYL BUTYLCARBAMATE
I-009	ICB-71, SU-15, EP-6, EPE-6, NAC-71	,	ISOAMYL p-METHOXYCINNAMATE
I-010A	CAD-29	10.0 pet	Ibuprofen
I-010B	EPE-29	5.0 pet	Ibuprofen
I-011	MET-35	10.0 aq	Indium(III)chloride 🕙
I-012	MET-13	1.0 pet	Iridium(III)chloride trihydrate
I-013	MET-37	10.0 aq	Indium(III)sulfate 🗞
I-014	MET-14	1.0 pet	Iridium
I-015	MET-15	1.0 pet	Indium
I-016	MET-29	2.0 pet	FERRIC CHLORIDE
I-017	F-38	10.0 pet	α-Isomethyl ionone 🗞
I-018	Deleted 2018		(Imipenem monohydrate)
I-019	MA-16, MP-20	0.1 pet	ISOBORNYL ACRYLATE
J-001	F-14	2.0 pet	Jasmine synthetic 🗞
J-002	F-23	2.0 pet	Jasmine absolute 🏖
J-003	Deleted 2018		(Juniperus oxycedrus extract <a>⊗)
K-001	ME-2		Kanamycin sulfate
K-002B	CAD-20, EP-11, EPE-11	1.0 pet	Ketoprofen
L-001	F-18, AC-47	2.0 pet	Lavender absolute 🗞
L-002A	V-25	5.0 pet	Lidocaine
L-002B	ICB-67, NAE-51 NAC-67, AC-36	15.0 pet	Lidocaine
L-003	S-28, ICB-72, F-25, IS-27, LA-28, ECB-28, NAE-58, NAC-72	5.0 pet	HYDROXYISOHEXYL 3-CYCLOHEX- ENE CARBOXALDEHYDE
L-004	C-49, H-27, ECB-43	3.0 pet	LAURYL POLYGLUCOSE @

Art. No.		Conc %(v & Vehicle	
L-005B	F-40	10.0 pet	LINALOOL &
L-006C	F-39	10.0 pet	d-Limonene ❷
L-007	Deleted 2019		(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	Melamine formaldehyde³
M-002	B-6	2.0 pet	MENTHOL ❷
M-003A	S-17, IS-14, O-16 R-8, SH-14, LA-17, ECB-17	, 2.0 pet	2-Mercaptobenzothiazole (MBT)
M-003B	ICB-2, NAE-2 NAC-2, AC-32	1.0 pet	2-Mercaptobenzothiazole (MBT)
M-004	MET-3	0.1 pet	Mercury(II)chloride
M-005	DS-11, DMP-12, DMS-8, MET-2	0.5 pet	Mercury
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	LA-22, PL-18	0.01 pet	2-Methoxy-6-n-pentyl-4-benzoquinone
M-009	Deleted 2018		(p-METHYLAMINOPHENOL SULFATE)
M-010A	Deleted 2018		(6-METHYL COUMARIN)
M-010B	6	1.0 alc	6-METHYL COUMARIN < ⊘
M-012	V-7	3.0 pet	METHYLPARABEN
M-013	ICB-42, DS-1, MA-1, MP-5,	2.0 pet	Methyl methacrylate 🏖
	DMP-1, DMS-1,	NA-42, N	AE-42, NAC-42, AC-46
M-014	O-13	0.1 pet	•
M-015	PG-21	1.0 pet	, .
M-016	R-11	1.0 pet	2-(4-Morpholinylmercapto)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, EPE-3	10.0 pet	4-METHYLBENZYLIDENE CAMPHOR
M-025	DS-22	1.0 pet	Methylhydroquinone

Art. No.		Conc %(v & Vehicle	
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	Deleted 2019		(Minocycline hydrochloride)
M-030	MET-23	5.0 pet	Molybdenum
M-031	MET-25	2.0 pet	MANGANESE CHLORIDE
M-032	Deleted 2018		(Methylene bis-benzotriazolyl tetramethylbutylphenol �)
M-033	F-42	5.0 pet	Majanthole
M-034	F-41	0.2 pet	Methyl-2-octynoate < ◆
M-035A	V-31	0.02 aq	METHYLISOTHIAZOLINONE 🗞
M-035B	S-29, ICB-54, C-54, IS-32,	0.2 aq	METHYLISOTHIAZOLINONE < ⊗
		AE-50, N	AC-54, ECB-29, AC-9
M-035C	6	0.05 aq	METHYLISOTHIAZOLINONE 🗞
M-035D	V-39	0.2 pet	METHYLISOTHIAZOLINONE ³ ⊘
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
Mx-01	S-3, ICB-10, IS-3, SH-6, LA-3, NA-10,	1.0 pet 0.25	Thiuram mix -Dipentamethylenethiuram disulfide (D-019)
	NAE-10, NAC-10 ECB-3, AC-24	0.25	-Tetraethylthiuram disulfide (TETD) (T-002)
		0.25	-Tetramethylthiuram disulfide (TMTD) (T-005)
		0.25	-Tetramethylthiuram monosulfide (TMTM) (T-006)
Mx-02	V-27	6.0 pet 3.0 3.0	Quinoline mix -Chlorquinaldol (C-012) -Clioquinol (C-015)
	ICB-26, NA-26 NAE-26, NAC-26 AC-8		Paraben mix -BUTYLPARABEN (B-020) -ETHYLPARABEN (E-010) -METHYLPARABEN (M-012) -PROPYLPARABEN (P-020)
Mx-03C	S-10, C-17, IS-29, LA-10 ECB-10	16.0 pet 4.0 4.0	Paraben mix -BUTYLPARABEN (B-020) -ETHYLPARABEN (E-010)

Art. No.	Serial no.	Conc %(& Vehicle	
		4.0 4.0	-METHYLPARABEN (M-012) -PROPYLPARABEN (P-020)
Mx-04	V-26, AC-16	0.6 pet 0.25	Black rubber mix -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)
Mx-05A	S-13, IS-9 LA-13, ECB-13	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, NAE-16 NAC-16, AC-22	1.0 pet 0.25	Mercapto mix -N-Cyclohexyl-2-benzothiazyl-
		0.25 0.25 0.25	sulfenamide (C-023) -Dibenzothiazyl disulfide (MBTS) (D-003) - 2-Mercaptobenzothiazole (MBT) (M-003) -2-(4-Morpholinylmercapto)benzothiazol (MOR) (M-016)
Mx-06	ICB-8, IS-21 LA-38, NA-8 NAE-8, NAC-8 AC-15	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, LA-19 NA-28, NAE-28, NAC-28, ECB-19 AC-6		Fragrance mix I 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)
Mx-08	F-45	6.0 pet 1.0 1.0 1.0 1.0 1.0	Perfume mix ³ -CINNAMYL ALCOHOL (C-013) -CINNAMAL (C-014) -EUGENOL (E-016) -GERANIOL (G-001) -HYDROXYCITRONELLAL (H-008) -ISOEUGENOL (I-002)
Mx-09	Deleted 2014		(Wood mix)

Art. No.	Serial no.	Conc %(w/w) Name & Vehicle
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	Deleted 2018	(Naphthyl mix)
Mx-12	Deleted 2018	(Caine mix I)
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 3.0 -Beech tar (B-002) 3.0 -Birch tar (B-011) 3.0 -Juniperus oxycedrus extract (J-003) 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)
Mx-16	ICB-36, TF-12 NAC-36 AC-66	5.0 pet Ethyleneurea, melamine formaldehyde mix² <a> 4.0
Mx-17D	Deleted 2011	(Euxyl K 400)
Mx-18	S-20, ICB-31, IS-30, ECB-20, LA-20, NA-31 NAE-31, PL-8 NAC-31, AC-57	0.1 pet Sesquiterpene lactone mix 0.033 -Alantolactone (A-003) 0.033 -Costunolide (C-039) 0.033 -Dehydrocostus lactone (D-056)
Mx-19	ECB-6, LA-6 ME-9, S-6	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	Deleted 2019	(Dermatophagoides mix (Pteronyssinus Pharinae 50/50)
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)

Art. No.		Conc %(\ & Vehicle	
Mx-24	ICB-24, LA-36 NA-24, NAE-24 NAC-24, AC-41	1.0 pet 0.5 0.5	Mixed dialkyl thiourea -N,N'-Dibutylthiourea (D-038) -N,N'-Diethylthiourea (D-039)
Mx-25	S-27, ICB-50, F-31, IS-25, LA-27, NA-32 NAE-32, NAC-50 ECB-27, AC-34	5.0 2.5	Fragrance mix II -Hexyl cinnamic aldehyde (H-025) -COUMARIN (C-038) -FARNESOL (F-004) -HYDROXYISOHEXYL 3-CYCLO- HEXENE CARBOXALDEHYDE (L-003) -CITRAL (C-036) -CITRONELLOL (C-037)
Mx-26	ICB-65, TF-33 LA-35, NA-38, NAE-38, NAC-65 AC-35	1.0 pet 0.5 0.5	Disperse Blue mix 106/124 -Disperse Blue 106 (D-040) -Disperse Blue 124 (D-041)
Mx-27	6	1.5 pet 0.5 0.5 0.5	Thiourea mix -N,N'-Dibutylthiourea (D-038) -N,N'-Diethylthiourea (D-039) -N,N'-Diphenylthiourea (D-025)
Mx-28	Deleted 2019		(Gallate mix)
Mx-28B	B-20, C-60	1.0 pet 0.25 0.5 0.25	Gallate mix -DODECYL GALLATE (D-042) -PROPYL GALLATE (P-021) -Octyl GALLATE (O-002)
Mx-29A	ICB-66, IS-23 NA-46, NAE-46, NAC-46, AC-65	5.0 pet 1.2 1.2 1.0 1.0 0.5 0.1	Compositae mix II -Anthemis nobilis extract (C-029) -Chamomilla recutita extract (C-051) -Achillea millefolium extract (A-025) -Tanacetum vulgare extract (T-033) -Arnica montana extract (A-024) -Parthenolide (P-029)
Mx-29B	ECB-35 ⁶	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)
M 00	0.00.100.40	0.05	-Parthenolide (P-029)
Mx-30	S-30, ICB-48, TF-34, NA-2 NAE-47, NAC-48 ECB-30	6.6 pet 1.0 3 1.0 1.0 1.0	Textile dye mix -Diperse Blue 35 (D-027) -Diperse Orange 1 (D-031) -DISPERSE ORANGE 3 (D-032) -Disperse Red 1 (D-034)

Art. No.		Conc %(v & Vehicle	
		1.0 1.0 0.3 0.3	-DISPERSE RED 17 (D-035) -Disperse Yellow 3 (D-036) -Disperse Blue 106 (D-040) -Disperse Blue 124 (D-041)
Mx-31	6	7.0 pet 5.0 1.0 1.0	Caine mix V -Benzocaine (B-004) -Dibucaine hydrochloride (D-005) -Tetracaine hydrochloride (T-025)
N-001	S-4, ICB-9, IS-2 LA-4, NA-9, NAE-9, NAC-9, ECB-4, AC-3	20.0 pet	Neomycin sulfate
N-002A	S-7, H-7, SH-10, DS-15, DMP-15 LA-7, ECB-7, ME	•	Nickel(II)sulfate hexahydrate
N-002B	ICB-20, IS-13 NA-20, NAE-20, NAC-20, AC-1	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	0.25 pet	Octyl gallate
O-003	MP-19	0.1 pet	Oligotriacrylate (OTA 480)
O-004	O-33, SH-22, PG-23, ICB-64 NAC-64, ECB-41	0.1 pet	2-n-Octyl-4-isothiazolin-3-one
O-005	ICB-80, C-56, H-28, NA-48, NAE-48, NAC-80	0.1 aq	OLEAMIDOPROPYL DIMETHYLAMINE
O-006	Deleted 2017	,, ,, ,, ,,	(OLEA EUROPAEA OIL)
O-007A	ICB-73, SU-13 NAC-73	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
O-010	SU-14, EP-13,	10.0 pet	ETHYLHEXYL TRIAZONE

Art. No.		Conc %(\ & Vehicle	
	EPE-13		
P-001	DS-23, DMP-19, MET-7	2.0 pet	Palladium(II)chloride
P-002	MP-18	0.1 pet	Pentaerythritol triacrylate 🗞
P-003	V-5	100	PETROLATUM
P-004	Deleted 2018		(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, LA-2	·	p-PHENYLENEDIAMINE (PPD)
	NA-4, NAE-4, NA		
P-007	PG-17		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	Deleted 2018		(Pine tar)
P-013	ICB-62, C-4, NAC-62	5.0 pet	POLYSORBATE 80
P-014A	S-1, DS-10, SH-7, P-14, IS-1, DMP-1 LA-1, ECB-1, MET	i, .	Potassium dichromate
P-014B	ICB-18, NA-18, NAE-18, NAC-18		Potassium dichromate
P-015	MET-31	0.1 aq	Potassium dicyanoaurate(I)
P-016	V-15	1.0 pet	Procaine hydrochloride
P-017A	Deleted 2019		(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 ❷
P-019B	ICB-79, NA-33 NAE-33, NAC-79	30.0 aq 9, AC-37	PROPYLENE GLYCOL
P-019C	Deleted 2017		(PROPYLENE GLYCOL)
P-020	V-9	3.0 pet	PROPYLPARABEN
P-021	B-18, C-38, LA-32	1.0 pet	PROPYL GALLATE
P-022	ECB-22, ICB-33, NA-35, NAE-61, NAC-33, LU-12, PL-6, AC-53	10.0 pet	Propolis

0.25 pet 2-Phenyl glycidyl ether 🗞

P-023

E-4

Art. No.		Conc %(\ & Vehicle	
	<u> </u>	& vernicie	7
P-024B	SU-9, EPE-22	10.0 pet	PHENYLBENZIMIDAZOLE SULFONIC ACID
P-025	C-41, O-32, AC-75	1.0 pet	PHENOXYETHANOL < ⊘
P-026	ME-21, AC-39	5.0 pet	Polymyxin B sulfate
P-027A	V-1	5.0 pet	Prilocaine hydrochloride
P-028	Deleted 2018		(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, EPE-17	1.0 pet	Piroxicam
P-034	6	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) ❷
P-039	ME-18	2.0 pet	Pramoxine hydrochloride
P-040	CAD-35	10.0 pet	Potassium clavulanate
P-041	ME-19	10.0 pet	Phenylbutazone
P-042	C-62, H-38	5.0 pet	PANTHENOL
P-043	C-63	2.5 aq	POLYAMINOPROPYL BIGUANIDE⊗
Q-001	ME-3	1.0 pet	Quinine sulfate
R-001	H-9	1.0 pet	RESORCINOL
R-002	PG-16	1.0 pet	Resorcinol monobenzoate
R-003	F-20	2.0 pet	Rose absolute 🗞
R-004B	TF-22	1.0 pet	Reactive Black 5
R-005B	TF-23	1.0 pet	Reactive Blue 21
R-006B	Deleted 2016		(Reactive Blue 238)
R-007B	TF-25	1.0 pet	Reactive Orange 107
R-008B	TF-26	1.0 pet	Reactive Red 123
R-009B	Deleted 2018		(Reactive Red 238)
R-010B	TF-28	1.0 pet	Reactive Red 228
R-011B	TF-29	1.0 pet	Reactive Violet 5
R-012	MET-45	0.1 pet	Ruthenium
R-013	MET-53	2.0 pet	Rhodium(III)chloride hydrate
S-001	B-4, AC-62	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	2.0 pet	SORBIC ACID

S-003 100

Art. No.	Serial no.	Conc %(\ & Vehicle	
	AC-63		
S-004	C-5, LU-22	5.0 pet	SORBITAN OLEATE
S-005	C-26, LU-20 AC-67	20.0 pet	SORBITAN SESQUIOLEATE
S-006	C-28	30.0 pet	STEARYL ALCOHOL
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 ECB-31	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, LA-33	, 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 🗞
T-001	Deleted 2018		(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, O-22, LU-13, LA-34, NAC-32	0.1 pet	THIMEROSAL
T-008	DS-30, MET-12	50.0 pet	Tin
T-009	I-1	2.0 pet	Toluene-2,4-diisocyanate (TDI) 🗞
T-010	ICB-41, IS-31, PG-15, LA-29, NA-41, NAE-41, NAC-41, AC-56	·	Toluenesulfonamide formaldehyde resin
T-011	DS-20	2.0 pet	4-Tolyldiethanolamine
T-012	6	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

Art. No.	Serial no.	Conc %(\ & Vehicle	
T-015	PG-11, P-16	5.0 pet	Tricresyl phosphate
T-016	ICB-47, C-3, O-7, LU-18, NAC-47	2.0 pet	TRIETHANOLAMINE
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
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, MN-10, DMP-8, DMS-6	2.0 pet	Tetrahydrofurfuryl methacrylate 🗞
T-028	PG-25	0.5 pet	Triglycidyl isocyanurate, (TGIC)
T-029	MA-13	2.0 pet	Tetraethylene glycol dimethacrylate
T-030	CS-3, AC-71	1.0 pet	Triamcinolone acetonide
T-031A	ICB-44, NA-44 NAE-44, NAC-4	1.0 pet 4, AC-27	Tixocortol-21-pivalate
T-031B	S-25, IS-19, CS-4, LU-21, LA-25, ECB-25	0.1 pet	Tixocortol-21-pivalate
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 NAE-64, NAC-4	5.0 pet 9, AC-51	Tea tree oil oxidized
T-036	ICB-22, C-43 NAE-60, NAC-2	100 2, AC-49	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	10.0 pet	TITANIUM DIOXIDE
T-041	MET-19	5.0 pet	Titanium(IV)oxalate hydrate

Art. No.	Serial no.	Conc %(\ & Vehicle	
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 ³
T-050	ME-15	20.0 pet	Tobramycin
U-001	TF-13	10.0 pet	Urea formaldehyde resin
U-002	Deleted 2019		(Urethane diacrylate, aliphatic)
U-003	Deleted 2019		(Urethane diacrylate, aromatic)
U-004	DS-3, MA-8	2.0 pet	Urethane dimethacrylate 🏖
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		Vanadium(V)oxide
W-001	S-12, IS-8, LA-12, ECB-12	30.0 pet	LANOLIN ALCOHOL
X-001	E-13	0.1 pet	m-Xylylenediamine
Y-001	ICB-57, F-21 NA-16, NAE-65, NAC-57, AC-64	2.0 pet	Ylang ylang oil 🏖
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 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 C₈H₀NO₂ 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 in the treatment of herpes zoster (shingles). **CAS** 59277-89-3.

Art. No. Formula FW Series

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 C₂₀H₂₇CIO₇ 520.71 CS

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

Aluminium

Deleted 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)₂ 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, AC,NA,NAE,NAC

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. **IJCU**.

Amidoamine

A-029

ICB, NA, NAE, NAC, AC

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

H₂NC₆H₃(CH₃)OH 123.15

Η

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

m-AMINOPHENOL

A-008

C₆H₇NO

109.13

Н

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 H₈Cl₆IrN₂ 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 H₂₄Mo₇N₆O₂₄·4H₂O 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 H₀N₂O₀S₂ 228.20 B, H

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 CI₄H_oN₂Pt 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

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 C₁₀H₁₂O 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 $C_8 H_{10} O_2$ 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- 15. **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, NA, NAE, NAC, AC

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

Deleted 2018

BENZALKONIUM CHLORIDE

B-027 C₁₇H₃OCIN 283.88 ICB, LU, AC

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_7H_5NOS 151.19 ECB, O

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

Benzocaine

B-004 $C_9H_{11}NO_2$ 165.19 S, ICB, ME, NA, NAE, NAC, AC

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

B-005 $C_7H_6O_2$ 122.12 B, AC

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

Art. No.	Formula	FW	Series
BENZOPHE H-014	NONE-3 C ₁₄ H ₁₂ O ₃	228.24	ICB, C, DS, EP, EPE, SU, NAE, NAC, AC

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 $C_{14}H_{12}O_6S$ 308.31 SU, EP, EPE, AC

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 C₁₅H₁₄O₃ 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 $C_{14}H_{10}O_4$ 242.23 ICB, B, PG, LU NAC

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 C₁₉H₂₃N₃O · 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; NAE, NAC, AC

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 F

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

BENZYL SALICYLATE

B-010 C₁₄H₁₂O₃ 228.26 ICB, C, F, NAC

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, AC

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.

Birch tar

Deleted 2018

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

 $$\rm H\text{-}013$$ $\rm C_{29}H_{36}O_{8}$ $\rm 512.61$ 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

Art. No.	Formula	FW	Series	
Bisphenol A				
B-013	C ₁₅ H ₁₆ O ₂	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, hydroguinonemonobenzyl ether. **CAS** 80-05-7.

Bithionol

B-014 C₁₂H₆Cl₄O₂S 356.07 ⁶

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 C₃H₆BrNO₄ 199.99 ICB,C,H,O,NA, AC.NAE.NAC.ECB

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.

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

Art. No.	Formula	FW	Series
Bufexamac			
B-043	$C_{12}H_{17}NO_3$	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.

1,4-Butanediol diacrylate

B-016 $C_{10}H_{14}O_4$ 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 $C_{10}H_{18}O_4$ 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	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 C₇H₁₂O₂ 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.

Art. No. Formula FW Series

4-tert-Butylbenzoic acid

B-019 C₄H₄O₂ 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 $C_8H_{14}O_2$ 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, NAC

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.

Art. No. **Formula FW** Series **BUTYI PARABEN** B-020 C,,H,,O, 194 23

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. CÁS 94-26-8

4-tert-Butylphenol

C,0H,4O B-023 150 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 NA, NAE, NAC,

ECB. LA. AC

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

BUTYLPHENYL METHYLPROPIONAL

C14H20 B-040 204.30

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.

C

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 C₀H₈Cl₃NO₃S 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.

Carbamazepine

C-044 C₄₅H₄₃N₂O 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 C₁₀H₁₄O 150.22 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

Art. No.	Formula	FW	Series
Cefalexin			
C-048	$C_{16}H_{17}N_3O_4S$	347.39	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.

Art. No.	Formula	FW	Series
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.

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 $C_{16}H_{34}O$ 242.45 $C_{16}H_{34}O$

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

CETEARYL ALCOHOL

C-033 LU, AC

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

CETEARYL GLUCOSIDE

C-056

Used as an emulsifier in peg-free lotions and creams. Suitable for low viscosity lotions (sprays), lotions, creams and foams. **CAS** 246159-33-1

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 C₁₁H₁₂Cl₂N₂O₅ 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 $C_{26}H_{38}CI_{2}N_{10}O_{4}$ 625.56

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 $C_{34}H_{54}CI_2N_{10}O_{14}$ 897.88 C, LU, AC

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 C₂H₂CINO 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 C₇H₇CIO 142.59 C, H, O, LU, AC

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, NAE, NAC. AC

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.

Chlorpromazine hydrochloride

C-011 C₁₇H₂₀Cl₂N₂S 355.35 EPE

An antiemetic and antipsychotic agent found in pills, injections, and suppositories. Cross: diethazine HCI, promethazine HCI, thiazinamium, ethopropazine HCI. May cause airborne contact dermatitis. PA, PT (systemic). CAS 69-09-0.

Art. No. Formula FW Series

Chlorquinaldol
C-012 C₄₀H,Cl₂NO 228.08

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; clioquinol. CAS** 72-80-0

Chrysanthemum Cinerariaefolium extract

C-031 PL

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. Pyrethrum is the main source of the pyrethrum insecticide. Principal hapten is pyrethrosin. **ICU**.

CINNAMAL

C-014 C_9H_8O 132.16 ICB, B, F, NA NAE, NAC, AC

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, Ceylon 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 $C_9H_{10}O$ 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 C₃₈H₆₀NO₁₃ 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

Art. No. Formula FW Series Clindamycin phosphate C, H, CIN, O, PS

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-046

C-015 C₀H_cCIINO C, LA 305.50

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, NAE, NAC. AC

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

Coal tar

C-016

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

Art. No. Formula FW Series

Cobalt(II)chloride hexahydrate

C-017 CoCl₂·6H₂O 237.93 S, ICB, DS, H, LA, DMP, ECB, NA, NAE, NAC, AC

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, NAE, NAC, AC

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, NA, AC, NAE, NAC, LA

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

COLOPHONIUM S, ICB, DS, C-020 SH, IS, DMP,

ECB, NA, NAE, NAC, LA, AC

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.

Art. No.	Formula	FW	Series	
Copper(I)oxide				
C-021	Cu ₂ O	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

C-022 CuSO₄. 5H₂O 249.68 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 $C_{_{10}}H_{_{18}}N_{_{4}}O_{_{3}}$. 543.19 CAD $C_{_{10}}H_{_{11}}N_{_{3}}O_{_{3}}S$

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 C₉H₈O₂ 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.

Cyclohexanone resin

Deleted 2019

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 C₁₂H₁₆N₂S₂ 264.41

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

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 $C_2H_7NS\cdot HCI$ 113.61 H

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

D

DECYL GLUCOSIDE

D-065 C₁₆H₃₂O₆ 320.43 ICB,AC, C, EP, EPE, ECB, NA, NAE, NAC

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). **CAS** 477-43-0.

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, NAE, NAC

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.

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.

Art. No.	Formula	FVV	Series
DIAZOLIDI	NYL UREA		
D-044	$C_8H_{14}N_4O_7$	278.22	ICB, C, IS, H, LU, ECB, NA, NAE, NAC, LA, AC

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.

Dibucaine hydrochloride

D-005 $C_{20}H_{30}CIN_3O_2$ 379.92 ICB, NAE, NAC

Used as local anesthetic agent. Also known as Cinchocaine HCl, Nupercaine HCl, Percaine and Cincaine. Also available as part of 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'-DibutyIthiourea

D-038 $(C_4H_9NH)_2CS$ 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.

Art. No.	Formula	FW	Series	
DICHLOROPHENE				
D-008	C ₁₃ H ₁₀ Cl ₂ O ₂	269.13	0	

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 $C_{19}H_{16}CI_{2}N_{3}$ 510.32 CAD $NaO_{s}S\cdot H_{s}O$

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 C₄₄H₅₀ N₇O₅ 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

Deleted 2018

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

Deleted 2018

Art. No. Formula FW Series

Diltiazem hydrochloride

D-060 C₂₀H₂₀N₂O₃S·HCl 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 $C_8H_{15}NO_2$ 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 $C_5H_{14}N_2$ 102.18 C, E, AC

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_oO₄ 144.12 SH

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

D-050

TF

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 C₅H₁₁NO

101.15

0

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

 $C_9H_{13}N$

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

R

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

C₂₄H₃₈O₄

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 ME

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.

1,3-Diphenylguanidine

D-022 C₁₃H₁₃N₃ 211.27 ICB, R, SH, NA, NAE, NAC, AC

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

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 ethylenepropylene-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.

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.

Art. No.	Formula	FW	Series	
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

Deleted 2019

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.

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. ${\bf CAS}$ 2581-69-3.

DISPERSE ORANGE 3

D-032	$C_{12}H_{10}N_4O_2$	242.24	AC,ICB,SH,TF,NAC
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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	$_{7}H_{20}N_{4}O_{4}$	344.37	TF
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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.

Art. No.	Formula	FW	Series
Disperse Ye	ellow 3		
D-036	$C_{15}H_{15}N_3O_2$	269.31	ICB, TF, NAC

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, R

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

D-047 $C_7H_{12}N_2O_4$ 188.07 ICB, C, NA, NAE, NAC, AC

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.

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-28B. **CAS** 1166-52-5.

Art. No.	Formula	FW	Series
Dodecyl mercaptan			
D-043	$C_{12}H_{26}S$	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 $C_{13}H_{11}N_3O$ 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 C₂₄H₃₉N₃O₃Si₃ 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 $C_{18}H_{16}CI_{3}N_{3}O_{4}$ 444.69 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.

Art. No.	Formula	FW	Series
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

Deleted 2019

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

Epoxy resin, Bisphenol A

S, ICB, SH, IS, DMP, ECB, NA AC, NAE, NAC, LA

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 FPIKOTE Resin 862. **CAS** 28064-14-4

Epoxy resin, cycloaliphatic

Deleted 2019

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

 $C_{37}H_{67}NO_{13}$

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

 $C_{18}H_{18}F_3NO_4$

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

 $\mathrm{C_7H_{13}NO_2}$

143.18

0

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

Ethyl acrylate

E-004

C₅H₈O₂

100.12

ICB, MN, MP, AC,NA, NAE, NAC

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, AC

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, AC, NA, NAE, NAC

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

E-006 $C_{10}H_{14}N_2$ 372.24 Na_2O_8 2 H_2O

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 dimethacrylateE-007

C₁₀H₁₄O₄

198.22

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

Deleted 2018

2-Ethylhexyl acrylate

E-009 C₄₁H₂₀O₂

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

E-018

 $C_{17}H_{27}NO_2$

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-4-dimethylaminobenzoate. **CAS** 21245-02-3.

ETHYLHEXYL METHOXYCINNAMATE

E-019

 $C_{18}H_{26}O_3$

290.18

AC,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

 $C_{15}H_{22}O_3$

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.

Art. No.	Formula	FW	Series	
ETHYLHEXYLGLYCERIN				
E-027	$C_{11}H_{24}O_3$	204.3	C, AC	

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 C₀H₁₀O₃ 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

Deleted 2018

ETHYL METHACRYLATE

E-012 $C_6H_{10}O_2$ 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)

Deleted 2018

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

 \cap

Comp. in E-014 C₁₂H₂₅N₂O₄ 287.36

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

C₀H₁₀NO₀S E-015 199.27 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.

EUGENOL

B. DS. F. DMP. E-016 C,0H,2O, 164.21 **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

F-017 $C_{17}H_{16}O_{7}$ 332.32 Ы

An acid present in different lichens. One of the three most common lichen haptens. Also available as part of Mx-15. Cross: oak moss. PA. CAS 537-09-7.

Art. No.

Formula

FW

Series

F

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

C₂₀H₂₁CIO₄

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

I-016

Cl₃Fe

162.2

MET

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.

Art. No.	Formula	FW	Series
FORMAL F-002	DEHYDE CH ₂ O	30.03	S, ICB, DS, H, LA O, SH, IS, ECB, AC, NA, NAE, NAC,

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

F-005 $C_{23}H_{46}N_6O_{13}H_2SO_4$ 712.72 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 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

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.

G

Gallium(III)oxide

G-007 Ga₂O₃ 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 C_{19,21}H_{39,43} ME N_EO₇ 2.5H₂SO₄

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 $C_{10}H_{18}O$ 154.25 F

As fragrance in perfumery. As insect attractant. Also available as part of Mx-07, Mx-08. **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).

Art. No.	Formula	FW	Series
GLUTARAL			
G-003	$C_5H_8O_2$	100.12	ICB, DS, P, SH, DMS, NA, NAE, NAC

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

 $\mbox{G-004} \qquad \qquad \mbox{C}_5\mbox{H}_{10}\mbox{SO}_4 \qquad \qquad \mbox{166.22} \qquad \mbox{ICB, H, NAC}$

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)₂2H₂O526.27 ICB, DS, MET, DMP, NAC, AC

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



Hexachlorophene

H-001 $C_{13}H_6CI_6O_2$ 406.91

Atopical antisepticin 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

DS, MA, MN, H-004 C₁₂H₁₈O₄ 226.28 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 $C_{12}H_{22}O_4$ 230.30 E

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 C₄₅H₂₀O 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 C₁₆H₂₂O₃ 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.

Art. No.	Formula	FW	Series
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 $H_6N_2O_4S$ 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.

Hydrochlorothiazide

H-029 $C_7H_8CIN_3O_4S_2$ 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, LA, AC

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

Deleted 2019 H₂O₂ 34.02

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

Hydroperoxides of Limonene

H-032 ICB, B, F, O, ECB, NA, NAE.

NAC NAC

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, ECB, NA, NAE, NAC

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, 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 $C_5H_8O_3$ 116.12 MN, MP

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

2-Hydroxyethyl methacrylate

ECB, DMP, DMS, AC, DS, ICB, MA, MP, MA, NA F, NA C, S

ECB, NAE, NAC

H-010 C₆H₁₀O₃ 130.15 MN,NA,NAE,NAC,S

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 $C_8H_{12}N_2O \cdot H_2O_4S \cdot 250.27$

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

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

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HYDROXYLAMINE SULFATE

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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 $C_7H_{12}O_3$ 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 C₂₁H₂₇CIN₂O₂:2HCl 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.

Ibuprofen

I-010 C₁₃H₁₈O₂ 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.

Art. No.	Formula	FW	Series
IMIDAZOLIE	DINYL UREA		
I-001	C ₁₁ H ₁₆ N ₈ O ₈	388.31	ICB, C, H, IS, LU; ECB, NA, NAE, NAC, LA, AC

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

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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 Cl₂In 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.

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IODOPROPYNYL BUTYLCARBAMATE

I-008 C₈H₁₂INO₂ 281.09 ICB, C, O, NA, NAE, NAC, AC

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 CI₃Ir3H₂O 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, NAC

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.

Art. No.	Formula	FW	Series	
Isobornyl Acrylate				
I-019	$C_{13}H_{20}O_2$	208.30	MA, MP	

Isobornyl acrylate is a chemical used in plastics, it polymerizes when exposed to free radicals to form monomers. It can be found in adhesives, sealants, intermediates, photosensitive chemicals, pigments (ink, toner and colorant products), paints, coatings, agricultural products (non-pesticidal) as well as in glucose monitoring systems, such as the FreeStyle® Libre. Also known as IBOA. CAS 5888-33-5.

ISOEUGENOL

I-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 $C_{14}H_{22}O$ 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.

ISOPROPYL MYRISTATE

I-003 C₁₇H₃₄O₂ 270.44 ICB, C, NAC

Formula

FW

Series

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

N-Isopropyl-N-phenyl-4-phenylenediamine

I-004

 $C_{15}H_{18}N_2$

226.32

S, IS, R, SH, ECB,

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

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Kanamycin sulfate

K-001

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

ME

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

Ketoprofen

K-002B C₄₆H₄₄O₅ 254.28 CAD, EP, EPE

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

LANOLIN ALCOHOL

W-001 S, IS, ECB, LA

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 $C_9H_7CI_2N_5$ 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, ECB

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, AC

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

Deleted 2019 Pb(C₂H₃O₂)₂·3H₂O 379.33

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.

Lidocaine

L-002 $C_{14}H_{22}N_2O$ 234.33 ICB, ME, NAE, NAC, AC

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

Art. No.	Formula	FW	Series	
d-Limonene				
L-006	C ₁₀ H ₁₆	136.24	F	

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 C₁₀H₁₈O 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).



Majanthole

M-033 C₁₂H₁₈O 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 $C_6H_{12}N_6O_3$ 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 B

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

2-Mercaptobenzothiazole S, ICB, O, R, LA SH, IS, ECB, NAE, NAC, AC

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.

Art. No. Formula FW Series

Mercury(II)chloride

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

271.50

MET

MercuryM-005 Hg 200.59 DS, DMP, DMS, 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

HqCl

M-004

M-022 (HgNH)₂CI 252.07 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 $C_{27}H_{32}O_6$ 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.

Art. No.	Formula	FW	Series
METHENAMINE			
H-003	$C_6H_{12}N_4$	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

 ${\rm M\text{-}008} \qquad \qquad {\rm C_{12}H_{16}O_3} \qquad \qquad {\rm 208.26} \qquad \qquad {\rm LA,\,PL}$

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 H

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

Deleted 2018

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 C₁₈H₂₂O 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

C10H2O2 M-010 160.17

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 C₆H₆Br₂N₂

265.94

S. ICB. C. O. IS. ECB. NA. AC, NAE, NAC, LA

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

 $C_7H_{10}N_2O_2$

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)

Deleted 2018

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

Ы

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 $C_7H_8O_2$ 124.14 DS

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

METHYLISOTHIAZOLINONE

M-035 C_4H_5NOS 115.15 S, ICB, C, IS, ECB, NA, NAE, NAC, LA, AC

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

S, ICB, C, H, LA C-009 C₄H₄CINOS 149.60 O, SH, IS, ECB, AC, NA, NAE, NAC

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 & 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.

Art. No.	Formula	FW	Series
Methyl m M-013	ethacrylate C ₅ H ₈ O ₂	100.12	ICB, DS, MA, DMP, DMS, MP AC, NA, NAE, NAC

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

 \circ

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

C₈H₈O₃

152.15

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 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 $CH_3C_6H_3(OH)_2$ 124.14 H

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

Miconazole

M-027 $C_{18}H_{14}CI_{4}N_{2}O$ 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

Deleted 2019 C₂₃H₂₇N₃O₇·HCI 493.94

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 C₂H₀O₂ 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 F

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 C₁₄H₁₈N₂O₅ 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.

Musk xylene

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.

Hapten info. M-N

Art. No. Formula FW Series

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 $C_{23}H_{46}N_{6}O_{13}H_{2}SO_{4}$ 712.72

S, ICB, IS, ECB, NA, NAE, NAC, LA. AC

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.

Nickel(II)sulfate hexahydrate

N-002 NiO₄S·6H₂O 262.86

S, ICB, IS, DS, H, SH, DMP, ECB, NA, NAE, NAC, LA, AC

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 $C_8H_{16}N_2O_3$ 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.

Norfloxacin

N-007 $C_{16}H_{18}FN_3O_3$ 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

 $\text{O-009} \qquad \qquad \text{C}_{24} \text{H}_{27} \text{NO}_2 \qquad \qquad \text{361.48} \qquad \qquad \text{SU, SF, EP, EPE}$

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

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-28B. **May cause airborne contact dermatitis. CAS** 1034-01-1.

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

O-004 C₁₁H₁₉NOS 213.34 ICB, O, PG, SH, ECB. NAC

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 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 C₂₃H₄₆N₂O 366.25 ICB, C, O, NA NAE, NAC, AC

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 2017



PABA

A-006 C₇H₇NO₂ 137.14 SU, EP, EPE

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

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.

PANTHENOL

P-042 205.254 C, H

Used as a humectant, emollient and moisturizer. As panthenol easily binds to hair follicles it is commonly used in shampoos and hair conditioners. **CAS** 16485-10-2

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 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, ECB, NA, AC NAE, NAC, LA

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. CAS 8007-00-9

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 C₈H₁₀O₂ 138.16 C. AC

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

Deleted 2018

PHENYLBENZIMIDAZOLE SULFONIC ACID

P-024 C₁,H₁,N₂O₂S 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 $C_{10}H_{20}N_{2}O_{2}$ 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)

C_oH_oN_o P-006 108.14 S, ICB, IS, H, SH, ECB, NA,

AC, NAE, NAC, LA

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. Art. No.

Formula

FW

Series

para compounds. May produce erythema multiforme like eruptions. May cause airborne contact dermatitis. PA. UCU. CAS 106-50-3.

p-PHENYLENEDIAMINE HCL

Deleted 2018

2-Phenyl glycidyl ether

P-023

C₉H₁₀O₂

150.18

Ε

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. **CAS** 135-88-6.

o-PHENYLPHENOL

P-010

 $C_{12}H_{10}O$

170.20

0

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

Deleted 2018

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.

POLYAMINOPROPYL BIGUANIDE

P-043 C

A preservative found in cosmetics, personal care products, fabric softeners, contact lens solutions, wet wipes and more. Also used as deodorizer and disinfectant. **CAS** 27083-27-8

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.

Polymyxin B Sulfate

P-026 $C_{56}H_{100}N_{16}O_{17}S$ 1385.63 ME, AC

An antibacterial peptide produced from Bacillus polymyxa. Polymixin B is commonly found in topical antibiotic ointments and creams. **CAS** 1405-20-5

Polysilicone-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 ⁶

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, NAC

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

P-014 Cr₂K₂O₇ 294.21 SH, IS, DMP, ECB. NA. NAE.

NAC, LA, AC

S, ICB, DS, P,

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 C₁₇H₂₇NO₃ · HCl 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 $C_{13}H_{21}CIN_2O$ 256.8

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. **Cross: para group of compounds, parabens, butethamine, PABA. CAS** 51-05-8.

Promethazine hydrochloride

P-017 C₁₇H₂₁CIN₂S 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-HCl, para compounds, chlorpromazine HCl, tripelennamine. May produce erythema multiforme like eruptions. PA. UCU. PL. CAS 58-33-3.

PROPIONIC ACID

P-018 $C_3H_6O_2$ 74.08 B

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

ECB, ICB, NA, NAE, P-022 AC, NAC, PL, LU, S

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

P-019 $C_3H_8O_2$ 76.09 ICB, C, O, LU, AC, NA, NAE, NAC

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.

PROPYL GALLATE

P-021 $C_{10}H_{12}O_5$ 212.20 B, C, LA

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-28B. **CAS** 121-79-9.

PROPYLPARABEN

P-020 $C_{10}H_{12}O_3$ 180.20

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.

Q

QUATERNIUM-15

C-007 $C_9H_{16}CI_2N_4$ 251.20 ICB, S, IS, C, H, ECB, NA, NAE, NAC, LA, AC

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 (C₂₀H₂₄N₂O₂)₂ 746.93 ME H₂SO₂2H₂O

An antimalarial agent also used as antipyreticum and in liquids (tonic etc.). **PA**. **CAS** 6119-70-6.

R

Reactive Black 5

R-004 $C_{26}H_{21}N_5Na_4O_{19}S_6$ 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

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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.

Art. No.	Formula	FW	Series	
RESORCINOL				
R-001	$C_6H_6O_2$	110.11	Н	

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 $C_{13}H_{10}O_3$ 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.

Art. No.	Formula	FW	Series
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



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.

Art. No.	Formula	FW	Series	
SILVER NITRATE				
S-007	AgNO	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 C₇H₅NaO₂ 144.11 B, AC

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

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, ECB

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.

Art. No. Formula FW Series Sodium-2-pyridinethiol-1-oxide S-002 C_5H_4NOSNa 149.14 C, O

A bactericide 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 $\text{CI}_4\text{Na}_2\text{Pd}\cdot\text{3H}_2\text{O}$ 348.20 DS, DMP, MET, LA

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.

Softisan 649

S-016

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 cream base. **CAS** 130905-60-1.

Art. No.	Formula	FW	Series	
SORBIC ACID				
S-003	$C_6H_8O_2$	112.13	B, C, LU, AC	

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, AC

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.

STANNOUS CHLORIDE

S-013 SnCl₂ 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 C₁₈H₃₈O 270.48 C

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 C₆H₈N₂O₂S 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.

T

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.

Art. No.	Formula	FW	Series
Tantalum			
T-047	Та	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, NAE, NAC, AC

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 $C_{15}H_{25}CIN_2O_2$ 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

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Tetraethylene glycol dimethacrylate

T-029

C, H, O,

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

 $C_{40}H_{20}N_2S_4$

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.

Tetrahydrofurfurylmethacrylate T-027 $C_oH_{45}O_3$ 171.21

DS. MA. MN. DMP. DMS

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.

Tetramethylthiuram disulfide

T-005

 $C_{e}H_{12}N_{2}S_{4}$

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_eH₁₂N₂S₂

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.

Art. No.	Formula	FW	Series
THIMEROSA	AL		
T-007	C ₉ H ₉ HgNaO ₂ S	404.84	ICB, C, O, LU, NAC, LA

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

 $\mathsf{C_{12}H_8Cl_2O_2S}$

287.18

6

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.

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.

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

 C_2O_4Sn

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.

 Art. No.
 Formula
 FW
 Series

 Tioconazole
 T-034
 C₄₆H₄₉CI₂N₂OS
 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_2Ti 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

TiC,O,H, · xH,O 241.92 · xH,O T-041 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-allov-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, C, H, O, S T-031 462.35 LU, ECB, NA,

NAE. NAC. LA

A topical 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, Hvdrocortisone-17butyrate, Prednisolone Triamcinolone acetonide, CAS 55560-96-8.

Tobramycin

T-050 $C_{10}H_{27}N_{E}O_{0}$ 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.

Art. No.	Formula	FW	Series
TOCOPHER	OL		
T-036	$C_{29}H_{50}O_2$	430.71	ICB, C, NAE, NAC, AC

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

Deleted 2018

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 C₀H₆N₂O₂ 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, NA AC, NAE, NAC, LA

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 $C_{24}H_{31}FO_6$ 434.49 CS, AC

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 $C_{13}H_8Br_3NO_2$ 449.96 ⁶

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.

TRICLOSAN

T-014 $C_{12}H_7CI_3O_2$ 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 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.

Art. No.	Formula	FW	Series	
TRIETHANOLAMINE				
T-016	$C_6H_{15}NO_3$	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,,H,,O, 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.

Triethylene glycol dimethacrylate T-018 C₁₄H₂₂O₆ 286.33 DS. MA. MN.

MP. DMP. DMS

A methacrylic monomer used as cross-linking agent for adhesives and dental restorative materials. Also know as TEGDMA and TREGDMA, CAS 109-16-0

Triethylenetetramine

T-019 $C_{\epsilon}H_{18}N_{4}$ 146.23 F

Used as epoxy curing agent, lubricating oil additive, chelating and analytical agent. Also known as TETA. CAS 112-24-3.

Triglycidyl isocyanurate

C12H15N2O6 T-028 297.27 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 $(C_{12}H_{15}N)_{2}$ 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 $C_{15}H_{26}O_6$ 302.36 E

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 $C_6H_{15}NO$ 115.18 O

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 can be ordered separately.

2,4,6-Tris(dimethylaminomethyl)phenol

T-048 $C_{15}H_{27}N_3O$ 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 $C_4H_9NO_5$ 151.12 $C_4H_9NO_5$

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 $C_{18}H_{15}O_4P$ 326.28 PG

A plasticizer in plastics (e.g., cellulose acetate) lacquers, varnishes, etc. Also used in impregnating roofing paper. **CAS** 115-86-6.

Art. No. Formula FW Series Tri(propylene glycol) diacrylate

T-023 C15H24O6 300.36

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

MP

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, and cosmetics. Cross: Chrysanthemum, pyrethrin. May cause airborne contact dermatitis.



Urea formaldehyde resin U-001 C₃H₈N₂O₃

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

Deleted 2019 1500

UV-reactive prepolymer based on an acrylated aliphatic isocyanate. Used in curable coatings, inks, and varnishes. 208

Urethane diacrylate, aromatic

Deleted 2019 1000

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 C₂₃H₃₈N₂O₈ 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.

(+)-Usnic acid

U-005 C₁₈H₁₆O₇ 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.

Art. No.	Formula	FW	Series	
Vanadium(III)chloride				
V-003	VCI ₃	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
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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 ₉ O ₂₄ ·HCI	1485.71	ME
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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.

VANII I IN

V-001 C ₈ H ₈ O ₃	152.14	B, F
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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.





m-Xylylenediamine

X-001 $C_8H_{12}N_2$ 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, NA, NAE, NAC, AC

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 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

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. **CAS** 7440-66-6.

ZINC CHLORIDE

Z-007 Cl_2Zn 136.28 MET

This hapten is a marker for contact allergy to **zinc**. Other uses are as a deodorant and as a wood preservative. **CAS** 7646-85-7.

ZINC DIBUTYLDITHIOCARBAMATE

Z-002 $C_{18}H_{36}N_2S_4Zn$ 474.14 R

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.

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.

Art. No. Formula FW Series

Zinc dimethyldithiocarbamate

Z-004 C₀H₀N₀S₀Zn 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 $C_4H_6N_2S_4Zn$ 275.75 O

A fungicide used in cooling fluids and as pesticide for seeds, plants, and fruit. Also known as Zineb. **CAS** 12122-67-7.

ZINC PYRITHIONE

Z-006 $C_{10}H_8N_2S_2O_2Zn$ 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 2018

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New hapter	In Series	
C-009D	METHYLISOTHIAZOLINONE+ METHYLCHLOROISOTHIAZOLINONE 0.02% pet	V-38
H-034 M-035D P-041	Hydrocortisone-21-acetate 1.0% pet METHYLISOTHIAZOLINONE 0.2% pet Phenylbutazone 10.0% pet	CS-13 V-39 ME-19
Deleted haptens		In series
I-018 P-031	Imipenem monohydrate 10.0% pet Penicillin G, potassium salt 10% pet	CAD-33 CAD-1
Test series	Amendment	
ICB-1000	No 17 N-Isopropyl-N-phenyl-4-phenylene (IPPD) 0.1% pet (I-004) changed to 1,3-Diphenylguanidine 1.0% pet (D-022).	diamine
ICB-1000	No 44 Tixocortol-21-pivalate changes in confrom 0.1% pet (T-031B) to 1.0% pet (T-03	
ICB-1000	No 45 Budesonide changes in concentrat 0.01% pet (B-033B) to 0.1% pet (B-033A)	ion from
ICB-1000	No 48 Hydrocortisone-17-butyrate 1.0% pchanged to Textile dye mix 6.6% pet (Mx-	et (H-021B)
ICB-1000	No 60 TRICLOSAN 2.0% pet (T-014) cha Hydroperoxides of Limonene 0.3% pet (H	nged to
ICB-1000	No 74 BENZALKONIUM CHLORIDE 0.1% changed to Hydroperoxides of Linalool 1. (H-031A).	aq (B-027)
ICB-1000	No 80 Dimethylol dihydroxy ethylene urea (D-012) changed to OLEAMIDOPROPYL DIMETHYLAMINE 0.1% ag (O-005).	
ICB-1000	No 81 Hydroperoxides of Linalool 1.0% p deleted see ICB-74.	et (H-031A)
ICB-1000	No 82 Hydroperoxides of Limonene 0.3% (H-032A) deleted see ICB-60.	pet
ICB-1000	No 83 Textile dye mix 6.6% pet (Mx-30) d see ICB-48.	eleted
B-1000 C-1000	No 20 Gallate mix 1.5% pet (Mx-28) adde No 59 SODIUM METABISULFITE 1.0% p	

	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+
	METHYLCHLOROISOTHIAZOLINONE 0.02% pet (C-009D) added.
V-1000	No 39 METHYLISOTHIAZOLINONE 0.2% pet (M-035D) added.

Catalogue amendments January 2019

New topical	In Series	
B-003B	BENZISOTHIAZOLINONE 0.1% pet	ECB,O
C-056	CETEARYL GLUCOSIDE 5.0% pet	C, H
P-026	Polymyxin B sulfate 5.0% pet	ME
P-042	PANTHENOL 5.0% pet	C, H
P-043	POLYAMINOPROPYL BIGUANIDE 2.5% aq	С

Deleted top	In Series	
A-007	N,N-DIETHYL-P-PHENYLENEDIAMINE	P-15
B-002	SULFATE (TSS) 1.0% pet Beech tar 3.0% pet	V-12
B-011	Birch tar 3.0% pet	V-14
B-025	Tolu balsam absolute 10.0% alc	V-23
D-011	N,N-DIETHYLTOLUENE-2,5-DIAMINE HCL 1.0% pet	P-1
D-066A	Dimethyl fumarate 0.1% pet	V-28
E-008	Ethylene urea 1.0% pet	V-21

E-011	N-Ethyl-N-(2-hydroxyethyl)-2-methyl-1,4-phenylenediamine sulfate salt 1.0% pet	P-3
E-013	N-Ethyl-N-(2-methane-sulfonamidoethyl) -2-methyl-1,4-PPD-sesquisulfate, hydrate (CD-3) 1.0% pet	P-2
H-011	HYDROXYLAMINE HCI 0.1% aq	P-7
H-012	HYDROXYLAMINE SULFATE 0.1% aq	P-13
J-003	Juniperus oxycedrus extract 3.0% pet	V-13
M-009	p-METHYLAMINOPHENOL SULFATE 1.0% pet	P-4
M-010A	6-METHYL COUMARIN 1.0% pet	V-32
M-032	Methylene bis-benzotriazolyl Tetramethylbutylphenol 10.0% pet	V-35
Mx-11	Naphthyl mix 1.0% pet	V-17
Mx-12	Caine mix I 3.5% pet	V-18
P-004	1-Phenyl-3-pyrazolidinone 1.0% pet	P-6
P-012	Pine tar 3.0% pet	V-11
P-028	p-PHENYLENEDIAMINE HCL 0.5% pet	V-20
R-009B	Reactive Red 238 1.0% pet	TF-27
T-001	3,3',4',5-Tetrachlorosalicylanilide (TCS) 0.1% pet	V-33

Hapten Series Amendment

S-1000	No 6 Benzocaine 5.0% pet (B-004) changed to Caine
S-1000	mix III 10.0% pet (Mx-19). No 8 Clioquinol 5.0% pet (C-015) changed to
	2-Hydroxyethyl methacrylate 2.0% pet (H-010).
S-1000	No 22 2-Methoxy-6-n-pentyl-4-benzoquinone 0.01%
	pet (M-008) changed to Propolis 10.0% pet (P-022).
ECB-1000	European Comprehensive Baseline Series added.
C-1000	No 61 CETEARYL GLUCOSIDE 5.0% pet (C-056)
	added.
C-1000	No 62 PANTHENOL 5.0% pet (P-042) added.
C-1000	No 63 POLYAMINOPROPYL BIGUANIDE 2.5% aq
	(P-043) added.
H-1000	No 38 PANTHENOL 5.0% pet (P-042) added.
ME-1000	No 20 Diphenhydramine hydrochloride 1.0% pet
	(D-021) added.
ME-1000	No 21 Polymyxin B sulfate 5.0% pet (P-026) added.

No 9 BENZISOTHIAZOLINONE changes in
concentration from 0.05% aq (B-003) to 0.1% pet (B-003B).
Photographic Chemicals Series deleted.
No 18 2-Methoxy-6-n-pentyl-4-benzoquinone
0.01% pet (M-008) added.
No 27 4,4'-Dithiodimorpholine 1.0% pet (D-054) added.
No 24 Dimethyl fumarate 0.01% pet (D-066B) added
No 27 Reactive Red 238 1.0% pet (R-009B) deleted.
No 11 Pine tar 3.0% pet (P-012) deleted.
No 12 Beech tar 3.0% pet (B-002) deleted.
No 14 Birch tar 3.0% pet (B-011) deleted.
No 13 Juniperus oxycedrus extract 3.0% pet (J-003)
deleted.
No 17 Naphthyl mix 1.0% pet (Mx-11) deleted.
No 18 Caine mix I 3.5% pet (Mx-12) deleted.
No 20 p-PHENYLENEDIAMINE HCL 0.5% pet
(P-028) deleted.
No 21 Ethylene urea 1.0% pet (E-008) deleted.
No 23 Tolu balsam absolute 10.0% alc (B-025)
deleted.
No 28 Dimethyl fumarate 0.1% pet (D-066A) deleted
No 29 Dimethyl fumarate 0.01% pet (D-066B)
deleted.
No 32 6-METHYL COUMARIN 1.0% pet (M-010A)
deleted.
No 33 3,3',4',5-Tetrachlorosalicylanilide (TCS)
0.1% pet (T-001) deleted.
No 34 Diphenhydramine hydrochloride 1.0% pet
(D-021) deleted.
No 35 Methylene bis-benzotriazolyl
tetramethylbutylphenol 10.0% pet (M-032) deleted.

Catalogue amendments January 2020

New topical haptens		In Series
I-019	ISOBORNYL ACRYLATE 0.1% pet	MA, MP
Mx-28B	Gallate mix 1.0% pet	B. C

Deleted topical haptens

In Series	In	Se	rie	S
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A-006A	PABA 5.0% pet	NAP
A-006B	PABA 5.0% alc	NAP
B-029B	BUTYL METHOXYDIBENZOYLMETHANI	E NAP
	5.0% pet	
C-027	Cyclohexanone resin 1.0% pet	PG
D-029	Disperse Blue 153 1.0% pet	TF
E-001	Epoxy acrylate 0.5% pet	MP
E-018B	ETHYLHEXYL DIMETHYL PABA 5.0% pe	t NAP
E-018C	ETHYLHEXYL DIMETHYL PABA 5.0% ald	NAP
E-019B	ETHYLHEXYL METHOXYCINNAMATE	NAP
	7.5% pet	
E-020	Epoxy resin, Cycloaliphatic 0.5% pet	E
H-023B	BENZOPHENONE-4 10.0% pet	NAP, SF
I-001B	IMIDAZOLIDINYL UREA 2.0% aq	IS
L-007	Lead(II)acetate trihydrate 0.5% aq	MET
M-029	Minocycline hydrochloride 10.0% pet	CAD
Mx-21C	Dermatophagoides mix 30.0% pet	V
Mx-28	Gallate mix 1.5% pet	B, C
P-017A	Promethazine hydrochloride 1.0% pet	NAP
U-002	Urethane diacrylate, aliphatic 0.1% pet	MP
U-003	Urethane diacrylate, aromatic 0.05% pet	MP
H-006	HYDROGEN PEROXIDE 3.0% aq	Н

Hapten Series Amendment

AC-1000	America	n Core Sei	ies added.		
B-1000			1.5% pet (Mx-	28) change	d to Gallate
	mix 1.0%	% pet (Mx-2	28B).		
C-1000	No 60 G	allate mix 1	1.5% pet (Mx-	28) change	d to Gallate
	mix 1.0%	% pet (Mx-2	28B).		
CAD-1000	No 6 Mir	nocycline h	ydrochloride	(M-029) de	leted.
E-1000	No 7 Ep	oxy resin, (Cycloaliphatic	0.5% pet (E-020)
	deleted.				
GB-1000	Great	Britain	Baseline	Series	extended
	Septemb	per 2019.			
IS-1000	No 18	IMIDAZOL	IDINYL URE	EA 2.0% a	aq (I-001B)
	change	d to IMIDAZ	ZOLIDINYL UI	REA 2.0% p	et (I-001A).
MA-1000	No 16	ISOBORN	YL ACRYLA	TE 0.1%	pet (I-019)
	added.				

MET-1000	No 6 Cobalt(II)chloride hexahydrate 1.0% pet (C-017A) added.
MET-1000	No 36 Lead(II)acetate trihydrate 0.5% aq (L-007)
WIE 1-1000	changed to Nickel(II)sulfate hexahydrate 5.0% pet
	(N-002A).
MET-1000	No 55 Potassium dichromate 0.5% pet (P-014A) added.
MP-1000	No 20 Epoxy acrylate 0.5% pet (E-001) changed
WII - 1000	to ISOBORNYL ACRYLATE 0.1% pet (I-019).
MP-1000	No 21 Urethane diacrylate, aliphatic 0.1% pet (U-002)
1000	changed to Triethylene glycol diacrylate 0.1% pet (T-017).
MD 1000	No22 Urethane diacrylate, aromatic 0.05% pet (U-003)
MP-1000	changed to N,N-Methylene-bisacrylamide 1.0% pet (M-023).
MD 1000	
MP-1000	No 23 Triethylene glycol diacrylate 0.1% pet (T-017) deleted.
MP-1000	No 24 N,N-Methylene-bisacrylamide 1.0% pet (M-023)
NAD 4000	deleted.
NAP-1000	No 1 ETHYLHEXYL METHOXYCINNAMATE 7.5% pet
	(E-019B) changed to ETHYLHEXYL METHOXYCIN
	NAMATE 10.0% pet (E-019C).
NAP-1000	No 2 BENZOPHENONE-4 10.0% pet (H-023B) changed
	to BENZOPHENONE-4 2.0% pet (H-023C).
NAP-1000	No 10 PABA 5.0% alc (A-006B) changed to PABA 10.0%
	pet (A-006C).
NAP-1000	No 13 ETHYLHEXYL DIMETHYL PABA 5.0% alc
	(E-018C) changed to 10.0% pet (E-018D).
NAP-1000	No 15 Promethazine hydrochloride 1.0% pet (P-017A)
	changed to Promethazine hydrochloride 0.1% pet (P-017B).
NAP-1000	No 16 ETHYLHEXYL DIMETHYL PABA 5.0% pet
	(E-018B) changed to METHYL ANTHRANILATE 5.0%
	pet (M-028).
NAP-1000	No 18 PABA 5.0% pet (A-006A) changed to 6-METHYL
	COUMARIN 1.0% alc (M-010B).
NAP-1000	No 23 METHYLANTHRANILATE 5.0% pet (M-028) deleted.
NAP-1000	No 24 6-METHYL COUMARIN 1.0% alc (M-010B) deleted.
PCB-1000	Polish Comprehensive Baseline Series added July 2019.
PG-1000	No 24 Cyclohexanone resin 1.0% pet (C-027) changed
	to Triglycidyl isocyanurate (TGIC) 0.5% pet (T-028).
PG-1000	No 25 Triglycidyl isocyanurate (TGIC) 0.5% pet (T-028)
	deleted.
POL-1000	Polish Baseline Series revised July 2019.
SF-1000	Swedish Photopatch Series deleted.
TF-1000	No 5 Disperse Blue 153 1.0% pet (D-029) deleted.
V-1000	No 37 Dermatophagoides mix 30.0% pet (Mx-21C)

deleted August 2019.

H-1000 No 12 HYDROGEN PEROXIDE 3.0% aq (H-006)

deleted December 2019.

For all previous amendments, please visit www.chemotechnique.se