



CHEMOTECHNIQUE DIAGNOSTICS

SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Chemo Nickel Test™

Product no: NT

REACH No: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Detection of nickel in metal objects.

1.3 Details of the supplier of the safety data sheet

Company: Chemotechnique MB Diagnostics AB
Modemgatan 9
SE-235 39 Vellinge

Phone: +46 (0)40-46 60 77

Fax: +46 (0)40-46 67 00

E-mail address: lab@chemotechnique.se

1.4 Emergency telephone number

Emergency Phone # Local emergency services

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquid (Category 2), H226

Skin corrosion (Category 1B), H314

Eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008



Pictogram

Signal word: Danger

Hazard statement(s)

H226: Flammable liquid and vapour

H314: Causes severe skin burns and eye damage



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H335 May cause respiratory irritation

Precautionary statement(s)

P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
 P403 + P235 Store in a well-ventilated place. Keep cool.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Lachrymator.

3. Composition/information on ingredients

3.1 Mixtures

Hazardous ingredients according to Regulation (EC) No 1272/2008		w-%
CAS-no 64-17-5 EC-no. 200-578-6	Ethanol Flam. Liq.2; H225	49%
CAS-no 1336-21-6 EC-no. 215-647-6	Ammonium hydroxide Acute Tox. 4; Skin Corr. 1B; Eye Dam.1; Aquatic Acute 1; Aquatic Chronic 2; H302, H314, H318, H400, H411	9.9%
CAS-no 95-45-4 EC-no. 202-420-1	Butanedione dioxime Flam. Sol. 2; Acute Tox. 3; H228, H301	1.0%

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

In case of skin contact

Remove contaminated clothing and shoes immediately. Wash off with soap and plenty of water.

4.2 Most important symptoms and effects, both acute and delayed



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The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO_x)

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1 Precautions for safe handling

Avoid inhalation of vapor or mist. USE ON METALS ONLY.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid extended exposure to direct sunlight.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls/personal protection



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8.1 Control parameters

Components with workplace control parameters

Ingredient	CAS-No.	Value/ Form of exposure	Control parameters	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m ³	UK. EH40 WEL - Workplace Exposure Limits
		Remarks	Where no specific short- term exposure limit is listed, a figure three times the long-term exposure should be used	

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|---------------|-----------------------------------------------------|
| a) Appearance | Form: Clear, liquid
Color: Colorless/Pale Yellow |
|---------------|-----------------------------------------------------|



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b) Odor	Ammonia odor
c) Odor Threshold	No data available
d) pH	11
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

No data available

10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heat, flames and sparks. Extreme temperatures and direct sunlight. Oxidizing agents.

10.5 Incompatible materials

Zinc

10.6 Hazardous decomposition products

No data available. In the event of fire: see section 5

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

CAS 1336-21-6 Ammonium hydroxide



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Oral	LD50	350 mg/kg (Rat) Comment: Gastrointestinal, liver, kidneys urine bladder, gallbladder
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Skin corrosion/irritation

Irritant to skin and mucous membranes.

Serious eye damage/eye irritation

Strong irritant with the danger of severe eye injury
Causes serious eye irritation.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available.

Specific target organ toxicity -single exposure

No data available.

Specific target organ toxicity -repeated exposure

No data available.

Aspiration hazard

No data available.

Additional Information

RTECS: Not available

Cough, wheezing, laryngitis, Shortness of breath.

12. Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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12.6 Other adverse effects

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waster, emptied into drains is only low water-dangerous.

13. Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste must be disposed in accordance with the Directive on waste 2008/98 / EC as well as other local or national regulations. Leave chemicals in their original containers. Do not mix with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging

Dispose of as unused product.

14. Transport information

14.1 UN-number

ADR-RID: 2924 IMDG: 2924 IATA: 2924

14.2 UN proper shipping name

ADR-RID: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ethanol, ammonia solution)
IMDG: Flammable liquids, corrosive, n.o.s. (ethanol, ammonia solution)
ATA: Flammable liquids, corrosive, n.o.s. (ethanol, ammonia solution)

14.3 Transport hazard class(es)

ADR-RID: 3 IMDG: 3 IATA: 3

14.4 Packaging group

ADR-RID: 3 (8) IMDG: 3(8) IATA: 3(8)

14.5 Environmental hazards

ADR-RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of Marpol 112 and the IBC Code

No data available

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

15.2 Chemical Safety Assessment



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For this product a chemical safety assessment was not carried out

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Acute Tox.	Acute toxicity
Eye Dam.	Eye Damage
Flam. Liq.	Flammable liquids
Flam. Sol.	Flammable solids
Skin Corr.	Skin corrosion
H225	Highly flammable liquid and vapor
H228	Flammable solid
H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long-lasting effects

Further information

Chemotechnique MB Diagnostics AB and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.