

# Safety Data Sheet

acc. to OSHA HCS





Printing date 05/28/2015

Reviewed on 05/28/2015

## 1 Identification

- **Product identifier**
- **Trade name:** COBALT NAPHTHENATE
- **Article number:** 12500, 12501
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**
  - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
    -  **Toxic**  
May cause cancer.
    -  **Harmful**  
Harmful: may cause lung damage if swallowed.
    -  **Irritant**  
Irritating to eyes and skin. May cause sensitisation by inhalation and skin contact.
    -  **Dangerous for the environment**  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Flammable.
  - **Information concerning particular hazards for human and environment:**  
The product has to be labeled due to the calculation procedure of international guidelines.
  - **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- 
- **Label elements**
  - **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with directives on hazardous materials.
  - **Code letter and hazard designation of product:**



Toxic  
Dangerous for the environment

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· **Hazard-determining components of labeling:**

Naphthenic acids, cobalt salts  
Solvent naphtha (petroleum), medium aliph.

· **Risk phrases:**

May cause cancer.  
Flammable.  
Irritating to eyes and skin.  
May cause sensitisation by inhalation and skin contact.  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Harmful: may cause lung damage if swallowed.

· **Safety phrases:**

Avoid exposure - obtain special instructions before use.  
Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
Avoid contact with skin.  
Wear suitable gloves and eyeface protection.  
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
Use appropriate container to avoid environmental contamination.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1  
Fire = 2  
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = \*1  
Fire = 2  
Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

61789-51-3	Naphthenic acids, cobalt salts	50-100%
64742-88-7	Solvent naphtha (petroleum), medium aliph.	25-50%

### 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

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- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect from heat.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Protect from heat and direct sunlight.

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· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Fluid

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· <b>Color:</b>	According to product specification
· <b>Odor:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	220 °C (428 °F)
· <b>Flash point:</b>	40 °C (104 °F)
· <b>Flammability (solid, gaseous):</b>	Not flammable.
· <b>Ignition temperature:</b>	265 °C (509 °F)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	0.6 Vol %
<b>Upper:</b>	6.5 Vol %
· <b>Vapor pressure at 20 °C (68 °F):</b>	6.6 hPa (5 mm Hg)
· <b>Density at 20 °C (68 °F):</b>	0.9675 g/cm <sup>3</sup> (8.074 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	45.0 %
<b>VOC content:</b>	45.0 %
	435.4 g/l / 3.63 lb/gl
· <b>Solids content:</b>	65.0 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

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· **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

· **Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:****64742-88-7 Solvent naphtha (petroleum), medium aliph.**

Oral LD50 &gt;6500 mg/kg (rat)

Dermal LD50 &gt;3000 mg/kg (rab)

Inhalative LC50/4 h &gt;14 mg/l (rat)

· **Primary irritant effect:**· **on the skin:** Irritant to skin and mucous membranes.· **on the eye:** Irritating effect.· **Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

Carcinogenic.

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

61789-51-3 | Naphthenic acids, cobalt salts

2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

· **Toxicity**· **Aquatic toxicity:** No further relevant information available.· **Persistence and degradability** No further relevant information available.· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Ecotoxicological effects:**· **Remark:** Very toxic for fish· **Additional ecological information:**· **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

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· **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>	<p style="text-align: center;">UN1993</p>
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	<p style="text-align: center;"><i>Flammable liquids, n.o.s. (Turpentine substitute, Naphthenic acids, cobalt salts)</i></p> <p style="text-align: center;"><i>1993 Flammable liquids, n.o.s. (Turpentine substitute, Naphthenic acids, cobalt salts), ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts)</i></p>
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT</b></li> </ul>	<div style="text-align: center;">  </div> <p style="text-align: center;">3 Flammable liquids</p> <p style="text-align: center;">3</p>
<ul style="list-style-type: none"> <li>· <b>ADR, IMDG</b></li> </ul>	<div style="text-align: center;">  </div> <p style="text-align: center;">3 Flammable liquids</p> <p style="text-align: center;">3</p>
<ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>	<div style="text-align: center;">  </div> <p style="text-align: center;">3 Flammable liquids</p> <p style="text-align: center;">3</p>

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· <b>Packing group</b> · <b>DOT, ADR, IMDG, IATA</b>	<b>III</b>
· <b>Environmental hazards:</b>	<i>Product contains environmentally hazardous substances: Naphthenic acids, cobalt salts</i>
· <b>Marine pollutant:</b>	<i>Yes Symbol (fish and tree)</i>
· <b>Special marking (ADR):</b>	<i>Symbol (fish and tree)</i>
· <b>Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b>	<i>Warning: Flammable liquids 30 F-E,<u>S-E</u></i>
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	<i>Not applicable.</i>
· <b>Transport/Additional information:</b>	
· <b>DOT</b> · <b>Quantity limitations</b>	<i>On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L</i>
· <b>ADR</b> · <b>Excepted quantities (EQ)</b>	<i>Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml</i>
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	<i>5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml</i>

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

*None of the ingredients is listed.*

· **Section 313 (Specific toxic chemical listings):**

*61789-51-3 | Naphthenic acids, cobalt salts*

· **TSCA (Toxic Substances Control Act):**

*All ingredients are listed.*

· **Proposition 65**

· **Chemicals known to cause cancer:**

*None of the ingredients is listed.*

· **Chemicals known to cause reproductive toxicity for females:**

*None of the ingredients is listed.*

· **Chemicals known to cause reproductive toxicity for males:**

*None of the ingredients is listed.*

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· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**



Toxic

Dangerous for the environment

· **Hazard-determining components of labeling:**

Naphthenic acids, cobalt salts

Solvent naphtha (petroleum), medium aliph.

· **Risk phrases:**

May cause cancer.

Flammable.

Irritating to eyes and skin.

May cause sensitisation by inhalation and skin contact.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Harmful: may cause lung damage if swallowed.

· **Safety phrases:**

Avoid exposure - obtain special instructions before use.

Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

Avoid contact with skin.

Wear suitable gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Use appropriate container to avoid environmental contamination.

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.

Exceptions can be made by the authorities in certain cases.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 05/28/2015 / -

**Safety data sheet**  
according to 1907/2006/EC, Article 31






Printing date 28.05.2015

Revision: 28.05.2015

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

- **Product identifier**
- **Trade name:** COBALT NAPHTHENATE
- **Article number:** 12500, 12501
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- ProSciTech Pty Ltd  
11 Carlton Street, Kirwan QLD 4817 Australia  
Telephone Number: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)  
Emergency Contact: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)
- Emgrid Australia Pty. Ltd.  
P.O. Box 118  
The Patch VIC 3792  
Australia  
Tel: 03 9752 1785  
Fax: 03 9752 1784  
Website: www.emgrid.com.au
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
-  **Toxic**  
May cause cancer.
-  **Harmful**  
Harmful: may cause lung damage if swallowed.
-  **Sensitising**  
May cause sensitisation by inhalation and skin contact.
-  **Irritant**  
Irritating to eyes and skin.
-  **Dangerous for the environment**  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Flammable.

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**Safety data sheet**  
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**Trade name: COBALT NAPHTHENATE**

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- **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**

- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**



Toxic  
Dangerous for the environment

- **Hazard-determining components of labelling:**

Naphthenic acids, cobalt salts  
Solvent naphtha (petroleum), medium aliph.

- **Risk phrases:**

May cause cancer.  
Flammable.  
Irritating to eyes and skin.  
May cause sensitisation by inhalation and skin contact.  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Harmful: may cause lung damage if swallowed.

- **Information concerning particular hazards for human and environment:**

- **Safety phrases:**

Avoid exposure - obtain special instructions before use.  
Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
Avoid contact with skin.  
Wear suitable gloves and eyeface protection.  
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
Use appropriate container to avoid environmental contamination.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

61789-51-3	Naphthenic acids, cobalt salts	50-100%
64742-88-7	Solvent naphtha (petroleum), medium aliph.	25-50%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

AU

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**Safety data sheet**  
according to 1907/2006/EC, Article 31

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Revision: 28.05.2015

Trade name: **COBALT NAPTHENATE**

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#### 4 First aid measures

- **Description of first aid measures**
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

#### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

#### 7 Handling and storage

- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect from heat.  
Protect against electrostatic charges.  
Keep respiratory protective device available.

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**Safety data sheet**  
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Trade name: **COBALT NAPHTHENATE**

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- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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## · Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

## · Information on basic physical and chemical properties

## · General Information

## · Appearance:

Form:	Fluid
Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value: Not determined.

## · Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	220 °C

· Flash point: 40 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 265 °C

· Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

## · Explosion limits:

Lower:	0.6 Vol %
Upper:	6.5 Vol %

· Vapour pressure at 20 °C: 6.6 hPa

· Density at 20 °C: 0.9675 g/cm<sup>3</sup>

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

## · Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

## · Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

## · Solvent content:

Organic solvents:	45.0 %
VOC (EC)	45.00 %

Solids content: 65.0 %

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· **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

64742-88-7 Solvent naphtha (petroleum), medium aliph.

Oral	LD50	>6500 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalative	LC50/4 h	>14 mg/l (rat)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitisation:**

Sensitisation possible through inhalation.

Sensitisation possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

Carcinogenic.

### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Very toxic for fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

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- *Very toxic for aquatic organisms*
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation**  
*Must not be disposed together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

· <b>UN-Number</b>	
· <b>ADG, IMDG, IATA</b>	UN1993
· <b>UN proper shipping name</b>	
· <b>ADG</b>	1993 FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts), ENVIRONMENTALLY HAZARDOUS
· <b>IMDG</b>	FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts), MARINE POLLUTANT
· <b>IATA</b>	FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts)
· <b>Transport hazard class(es)</b>	
· <b>ADG, IMDG</b>	
	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3
· <b>IATA</b>	
	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3
· <b>Packing group</b>	
· <b>ADG, IMDG, IATA</b>	III
· <b>Environmental hazards:</b>	Product contains environmentally hazardous substances: Naphthenic acids, cobalt salts
· <b>Marine pollutant:</b>	Yes Symbol (fish and tree)

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· <b>Special marking (ADG):</b>	Symbol (fish and tree)
· <b>Special precautions for user</b>	Warning: Flammable liquids.
· <b>Danger code (Kemler):</b>	30
· <b>EMS Number:</b>	F-E, <u>S-E</u>
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

### 15 Regulatory information

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

· **Australian Inventory of Chemical Substances**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

None of the ingredients is listed.

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**



Toxic  
Dangerous for the environment

· **Hazard-determining components of labelling:**

Naphthenic acids, cobalt salts  
Solvent naphtha (petroleum), medium aliph.

· **Risk phrases:**

May cause cancer.  
Flammable.  
Irritating to eyes and skin.  
May cause sensitisation by inhalation and skin contact.  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Harmful: may cause lung damage if swallowed.

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**Trade name: COBALT NAPHTHENATE**

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**· Safety phrases:**

*Avoid exposure - obtain special instructions before use.*

*Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).*

*Avoid contact with skin.*

*Wear suitable gloves and eye/face protection.*

*In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).*

*Use appropriate container to avoid environmental contamination.*

**· National regulations:****· Information about limitation of use:**

*Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.*

*Exceptions can be made by the authorities in certain cases.*

**· Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.***16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

AU

# Safety Data Sheet

acc. to OSHA HCS

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## 1 Identification

- **Product identifier**
- **Trade name:** COBALT NAPHTHENATE
- **Article number:** 12500, 12501
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Toxic

May cause cancer.



Harmful

Harmful: may cause lung damage if swallowed.



Irritant

Irritating to eyes and skin. May cause sensitisation by inhalation and skin contact.

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**Dangerous for the environment**

*Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

*Flammable.*

· **Information concerning particular hazards for human and environment:**

*The product has to be labeled due to the calculation procedure of international guidelines.*

· **Classification system:**

*The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.*

· **Label elements**

· **Labelling according to EU guidelines:**

*The product has been classified and marked in accordance with directives on hazardous materials.*

· **Code letter and hazard designation of product:**



Toxic

Dangerous for the environment

· **Hazard-determining components of labeling:**

*Naphthenic acids, cobalt salts*

*Solvent naphtha (petroleum), medium aliph.*

· **Risk phrases:**

*May cause cancer.*

*Flammable.*

*Irritating to eyes and skin.*

*May cause sensitisation by inhalation and skin contact.*

*Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

*Harmful: may cause lung damage if swallowed.*

· **Safety phrases:**

*Avoid exposure - obtain special instructions before use.*

*Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).*

*Avoid contact with skin.*

*Wear suitable gloves and eye/face protection.*

*In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).*

*Use appropriate container to avoid environmental contamination.*

· **Hazard description:**

· **WHMIS-symbols:**

*B3 - Combustible liquid*

*D2A - Very toxic material causing other toxic effects*



· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 2

Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = *1
FIRE	2	Fire = 2
REACTIVITY	0	Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

61789-51-3	Naphthenic acids, cobalt salts	30-60%
64742-88-7	Solvent naphtha (petroleum), medium aliph.	30-60%

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

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- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect from heat.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Fluid
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	220 °C

· **Flash point:** 40 °C

· **Flammability (solid, gaseous):** Not flammable.

· **Ignition temperature:** 265 °C

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

<b>Lower:</b>	0.6 Vol %
<b>Upper:</b>	6.5 Vol %

· **Vapor pressure at 20 °C:** 6.6 hPa

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· <b>Density at 20 °C:</b>	0.9675 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	45.0 %
<b>Solids content:</b>	65.0 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**64742-88-7 Solvent naphtha (petroleum), medium aliph.**

Oral	LD50	>6500 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalative	LC50/4 h	>14 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:**
- Sensitization possible through inhalation.
- Sensitization possible through skin contact.
- **Additional toxicological information:**
- The product shows the following dangers according to internally approved calculation methods for preparations:
- Harmful
- Irritant
- Carcinogenic.

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Trade name: **COBALT NAPHTHENATE**

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- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

61789-51-3 | Naphthenic acids, cobalt salts

2B

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Very toxic for fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**

- **DOT, TDG, IMDG, IATA**

UN1993

- **UN proper shipping name**

- **DOT**

Flammable liquids, n.o.s. (Turpentine substitute, Naphthenic acids, cobalt salts)

- **TDG**

1993 Flammable liquids, n.o.s. (Turpentine substitute, Naphthenic acids, cobalt salts), ENVIRONMENTALLY HAZARDOUS

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· **IMDG** *FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts), MARINE POLLUTANT*

· **IATA** *FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts)*

· **Transport hazard class(es)**· **DOT**

· **Class** *3 Flammable liquids*

· **Label** *3*

· **TDG, IMDG**



· **Class** *3 Flammable liquids*

· **Label** *3*

· **IATA**

· **Class** *3 Flammable liquids*

· **Label** *3*

· **Packing group**· **DOT, TDG, IMDG, IATA** *III*

· **Environmental hazards:** *Product contains environmentally hazardous substances: Naphthenic acids, cobalt salts*

· **Marine pollutant:** *Yes*  
*Symbol (fish and tree)*

· **Special marking (TDG):** *Symbol (fish and tree)*

· **Special precautions for user** *Warning: Flammable liquids*

· **Danger code (Kemler):** *30*

· **EMS Number:** *F-E,S-E*

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** *Not applicable.*

· **Transport/Additional information:**· **DOT**

· **Quantity limitations** *On passenger aircraft/rail: 60 L*  
*On cargo aircraft only: 220 L*

· **TDG**

· **Excepted quantities (EQ)** *Code: E1*  
*Maximum net quantity per inner packaging: 30 ml*  
*Maximum net quantity per outer packaging: 1000 ml*

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· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN1993, Flammable liquids, n.o.s. (Turpentine substitute, Naphthenic acids, cobalt salts), ENVIRONMENTALLY HAZARDOUS, 3, III

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· <b>Section 355 (extremely hazardous substances):</b>
--

None of the ingredients is listed.
------------------------------------

· <b>Section 313 (Specific toxic chemical listings):</b>
--

61789-51-3   Naphthenic acids, cobalt salts
---

· <b>TSCA (Toxic Substances Control Act):</b>
---

All ingredients are listed.
-----------------------------

· <b>Proposition 65</b>
-------------------------

· <b>Chemicals known to cause cancer:</b>
---

None of the ingredients is listed.
------------------------------------

· <b>Chemicals known to cause reproductive toxicity for females:</b>
--

None of the ingredients is listed.
------------------------------------

· <b>Chemicals known to cause reproductive toxicity for males:</b>
--

None of the ingredients is listed.
------------------------------------

· <b>Chemicals known to cause developmental toxicity:</b>
---

None of the ingredients is listed.
------------------------------------

· <b>Carcinogenic categories</b>
----------------------------------

· <b>EPA (Environmental Protection Agency)</b>
--

None of the ingredients is listed.
------------------------------------

· <b>TLV (Threshold Limit Value established by ACGIH)</b>
---

None of the ingredients is listed.
------------------------------------

· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
---

None of the ingredients is listed.
------------------------------------

· <b>Canadian substance listings:</b>
---------------------------------------

· <b>Canadian Domestic Substances List (DSL)</b>
--

All ingredients are listed.
-----------------------------

· <b>Canadian Ingredient Disclosure list (limit 0.1%)</b>
---

None of the ingredients is listed.
------------------------------------

· <b>Canadian Ingredient Disclosure list (limit 1%)</b>
---

None of the ingredients is listed.
------------------------------------

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**Trade name: COBALT NAPHTHENATE**

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· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**



Toxic  
Dangerous for the environment

· **Hazard-determining components of labeling:**

Naphthenic acids, cobalt salts  
Solvent naphtha (petroleum), medium aliph.

· **Risk phrases:**

May cause cancer.  
Flammable.  
Irritating to eyes and skin.  
May cause sensitisation by inhalation and skin contact.  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Harmful: may cause lung damage if swallowed.

· **Safety phrases:**

Avoid exposure - obtain special instructions before use.  
Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
Avoid contact with skin.  
Wear suitable gloves and eye/face protection.  
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
Use appropriate container to avoid environmental contamination.

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.  
Exceptions can be made by the authorities in certain cases.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 05/28/2015 / -

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
WHMIS: Workplace Hazardous Materials Information System (Canada)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
Flam. Liq. 3: Flammable liquids, Hazard Category 3  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A  
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

(Contd. on page 11)

**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing date 05/28/2015

Reviewed on 05/28/2015

**Trade name: COBALT NAPHTHENATE**

*Carc. 2: Carcinogenicity, Hazard Category 2*  
*Asp. Tox. 1: Aspiration hazard, Hazard Category 1*

(Contd. of page 10)

CA

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 28.05.2015

Revision: 28.05.2015

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** COBALT NAPHTHENATE
- **Article number:** 12500, 12501
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3      H226 Flammable liquid and vapour.



GHS08 health hazard

Resp. Sens. 1      H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Carc. 1B      H350 May cause cancer.  
Asp. Tox. 1      H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Acute 1      H400 Very toxic to aquatic life.  
Aquatic Chronic 1      H410 Very toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2      H315 Causes skin irritation.  
Eye Irrit. 2      H319 Causes serious eye irritation.  
Skin Sens. 1      H317 May cause an allergic skin reaction.

(Contd. on page 2)

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 28.05.2015

Revision: 28.05.2015

**Trade name: COBALT NAPHTHENATE**

(Contd. of page 1)

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**

GHS02    GHS08    GHS09

**Signal word** *Danger***Hazard-determining components of labelling:**

Naphthenic acids, cobalt salts

Solvent naphtha (petroleum), medium aliph.

**Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**P301+P310 **IF SWALLOWED:** Immediately call a POISON CENTER/ doctor.P303+P361+P353 **IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.P305+P351+P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 61789-51-3 EINECS: 263-064-0	Naphthenic acids, cobalt salts ⚠ Flam. Liq. 3, H226; ⚠ Resp. Sens. 1, H334; ⚠ Carc. 1B, H350; ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319; ⚠ Skin Sens. 1, H317	50-100%
CAS: 64742-88-7 EINECS: 265-191-7	Solvent naphtha (petroleum), medium aliph. ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304	25-50%

GB

(Contd. on page 3)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 28.05.2015

Revision: 28.05.2015

Trade name: **COBALT NAPTHENATE**

(Contd. of page 2)

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect from heat.  
Protect against electrostatic charges.  
Keep respiratory protective device available.

(Contd. on page 4)



**Safety data sheet**  
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**Trade name: COBALT NAPHTHENATE**

(Contd. of page 3)

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Printing date 28.05.2015

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Trade name: COBALT NAPHTHENATE

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## · Eye protection:



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

## · 9.1 Information on basic physical and chemical properties

## · General Information

## · Appearance:

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.

· pH-value: Not determined.

## · Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	220 °C

· Flash point: 40 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 265 °C

· Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

## · Explosion limits:

Lower:	0.6 Vol %
Upper:	6.5 Vol %

· Vapour pressure at 20 °C: 6.6 hPa

Density at 20 °C:	0.9675 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

· Solubility in / Miscibility with water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

## · Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

## · Solvent content:

Organic solvents:	45.0 %
VOC (EC)	45.00 %

Solids content: 65.0 %

(Contd. on page 6)

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Trade name: COBALT NAPHTHENATE

(Contd. of page 5)

· **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

**64742-88-7 Solvent naphtha (petroleum), medium aliph.**

Oral	LD50	>6500 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalative	LC50/4 h	>14 mg/l (rat)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitisation:**

Sensitisation possible through inhalation.

Sensitisation possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

Carcinogenic.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Carc. 1B

### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Very toxic for fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

(Contd. on page 7)

**Safety data sheet**  
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**Trade name: COBALT NAPHTHENATE**

(Contd. of page 6)

*Danger to drinking water if even extremely small quantities leak into the ground.*

*Also poisonous for fish and plankton in water bodies.*

*Very toxic for aquatic organisms*

**· 12.5 Results of PBT and vPvB assessment**

**· PBT:** Not applicable.

**· vPvB:** Not applicable.

**· 12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

**· 13.1 Waste treatment methods**

**· Recommendation**

*Must not be disposed together with household garbage. Do not allow product to reach sewage system.*

**· Uncleaned packaging:**

**· Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

**· 14.1 UN-Number**

**· ADR, IMDG, IATA**

UN1993

**· 14.2 UN proper shipping name**

**· ADR**

1993 FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts), ENVIRONMENTALLY HAZARDOUS

**· IMDG**

FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts), MARINE POLLUTANT

**· IATA**

FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts)

**· 14.3 Transport hazard class(es)**

**· ADR, IMDG**



**· Class**

3 Flammable liquids.

**· Label**

3

**· IATA**



**· Class**

3 Flammable liquids.

**· Label**

3

**· 14.4 Packing group**

**· ADR, IMDG, IATA**

III

(Contd. on page 8)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 28.05.2015

Revision: 28.05.2015

**Trade name: COBALT NAPHTHENATE**

(Contd. of page 7)

· <b>14.5 Environmental hazards:</b>	<i>Product contains environmentally hazardous substances:</i>
· <b>Marine pollutant:</b>	<i>Naphthenic acids, cobalt salts</i>
· <b>Special marking (ADR):</b>	<i>Yes</i>
	<i>Symbol (fish and tree)</i>
	<i>Symbol (fish and tree)</i>
· <b>14.6 Special precautions for user</b>	<i>Warning: Flammable liquids.</i>
· <b>Danger code (Kemler):</b>	<i>30</i>
· <b>EMS Number:</b>	<i>F-E,S-E</i>
· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	<i>Not applicable.</i>
· <b>Transport/Additional information:</b>	
-----	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	<i>5L</i>
· <b>Excepted quantities (EQ)</b>	<i>Code: E1</i>
	<i>Maximum net quantity per inner packaging: 30 ml</i>
	<i>Maximum net quantity per outer packaging: 1000 ml</i>
· <b>Transport category</b>	<i>3</i>
· <b>Tunnel restriction code</b>	<i>D/E</i>
-----	
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	<i>5L</i>
· <b>Excepted quantities (EQ)</b>	<i>Code: E1</i>
	<i>Maximum net quantity per inner packaging: 30 ml</i>
	<i>Maximum net quantity per outer packaging: 1000 ml</i>
· <b>UN "Model Regulation":</b>	<i>UN1993, FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts), ENVIRONMENTALLY HAZARDOUS, 3, III</i>

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Information about limitation of use:**  
*Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.*
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Relevant phrases**
- H226 Flammable liquid and vapour.*
- H304 May be fatal if swallowed and enters airways.*
- H315 Causes skin irritation.*
- H317 May cause an allergic skin reaction.*
- H319 Causes serious eye irritation.*
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.*

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**Safety data sheet**  
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**Trade name: COBALT NAPHTHENATE**

(Contd. of page 8)

*H350 May cause cancer.**H400 Very toxic to aquatic life.**H410 Very toxic to aquatic life with long lasting effects.***· Abbreviations and acronyms:***ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**VOC: Volatile Organic Compounds (USA, EU)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**Flam. Liq. 3: Flammable liquids, Hazard Category 3**Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2**Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2**Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1**Skin Sens. 1: Sensitisation - Skin, Hazard Category 1**Carc. 1B: Carcinogenicity, Hazard Category 1B**Asp. Tox. 1: Aspiration hazard, Hazard Category 1**Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1*

GB

# Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 28.05.2015

Herziening van: 28.05.2015

## RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming

### · 1.1 Productidentificatie

· **Handelsnaam:** COBALT NAPHTHENATE

· **Artikelnummer:** 12500, 12501

### · 1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik

Geen verdere relevante informatie verkrijgbaar.

· **Toepassing van de stof / van de bereiding** Laboratoriumchemicaliën

### · 1.3 Details betreffende de verstrekker van het veiligheidsinformatieblad

#### · **Fabrikant/leverancier:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

Aurion

Binnenhaven 5

6709 PD Wageningen

The Netherlands

Tel: 31 317 415094

Fax: 31 317 415955

email: info@aurion.nl

· **Inlichtingengevende sector:** Product safety department

### · 1.4 Telefoonnummer voor noodgevallen:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

## RUBRIEK 2: Identificatie van de gevaren

### · 2.1 Indeling van de stof of het mengsel

· **Indeling overeenkomstig Verordening (EG) nr. 1272/2008**



GHS02 vlam

Flam. Liq. 3      H226 Ontvlambare vloeistof en damp.



GHS08 gezondheidsgevaar

Resp. Sens. 1      H334 Kan bij inademing allergie- of astmasymptomen of ademhalingsmoeilijkheden veroorzaken.

Carc. 1B      H350 Kan kanker veroorzaken.

Asp. Tox. 1      H304 Kan dodelijk zijn als de stof bij inslikken in de luchtwegen terechtkomt.



GHS09 milieu

Aquatic Acute 1      H400 Zeer giftig voor in het water levende organismen.

Aquatic Chronic 1      H410 Zeer giftig voor in het water levende organismen, met langdurige gevolgen.

(Vervolg op blz. 2)

# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

datum van de druk: 28.05.2015

Herziening van: 28.05.2015

**Handelsnaam: COBALT NAPHTHENATE**

(Vervolg van blz. 1)



GHS07

Skin Irrit. 2      H315 Veroorzaakt huidirritatie.  
 Eye Irrit. 2      H319 Veroorzaakt ernstige oogirritatie.  
 Skin Sens. 1      H317 Kan een allergische huidreactie veroorzaken.

### · 2.2 Etiketteringselementen

#### · Etikettering overeenkomstig Verordening (EG) nr. 1272/2008

Het product is geïnclassificeerd en geëtiketteerd volgens de CLP-verordening.

#### · Gevarenpictogrammen



GHS02    GHS08    GHS09

#### · Signaalwoord Gevaar

#### · Gevaaraanduidende componenten voor de etikettering:

Naphthenic acids, cobalt salts  
 solvent-nafta (aardolie), middenfractie alifatisch

#### · Gevarenaanduidingen

H226 Ontvlambare vloeistof en damp.  
 H315 Veroorzaakt huidirritatie.  
 H319 Veroorzaakt ernstige oogirritatie.  
 H334 Kan bij inademing allergie- of astmasymptomen of ademhalingsmoeilijkheden veroorzaken.  
 H317 Kan een allergische huidreactie veroorzaken.  
 H350 Kan kanker veroorzaken.  
 H304 Kan dodelijk zijn als de stof bij inslikken in de luchtwegen terechtkomt.  
 H410 Zeer giftig voor in het water levende organismen, met langdurige gevolgen.

#### · Voorzorgsmaatregelen

P301+P310 NA INSLIKKEN: onmiddellijk een ANTIGIFCENTRUM/arts raadplegen.  
 P303+P361+P353 BIJ CONTACT MET DE HUID (of het haar): verontreinigde kleding onmiddellijk uittrekken - huid met water afspoelen/afdouchen.  
 P305+P351+P338 BIJ CONTACT MET DE OGEN: voorzichtig afspoelen met water gedurende een aantal minuten; contactlenzen verwijderen, indien mogelijk; blijven spoelen.  
 P321 Specifieke behandeling vereist (zie op dit etiket).  
 P405 Achter slot bewaren.  
 P501 De inhoud en de verpakking verwerken volgens de plaatselijke/regionale/nationale/internationale voorschriften.

#### · 2.3 Andere gevaren

#### · Resultaten van PBT- en zPzB-beoordeling

- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.

## RUBRIEK 3: Samenstelling en informatie over de bestanddelen

#### · 3.2 Chemische karakterisering: Mengsels

- **Beschrijving:** Mengsel van na elkaar aangevoerde stoffen met ongevaarlijke bijmengingen.

(Vervolg op blz. 3)



# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

datum van de druk: 28.05.2015

Herziening van: 28.05.2015

**Handelsnaam: COBALT NAPHTHENATE**

(Vervolg van blz. 2)

· <b>Gevaarlijke inhoudstoffen:</b>		
CAS: 61789-51-3 EINECS: 263-064-0	Naphthenic acids, cobalt salts ⚠ Flam. Liq. 3, H226; ⚠ Resp. Sens. 1, H334; ⚠ Carc. 1B, H350; ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319; ⚠ Skin Sens. 1, H317	50-100%
CAS: 64742-88-7 EINECS: 265-191-7	solvent-nafta (aardolie), middenfractie alifatisch ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304	25-50%

### RUBRIEK 4: Eerstehulpmaatregelen

- **4.1 Beschrijving van de eerstehulpmaatregelen**
- **Na het inademen:**  
Veel verse lucht toedienen en voor alle zekerheid een arts raadplegen.  
Bij bewusteloosheid ligging en vervoer in stabiele zijligging.
- **Na huidcontact:** Onmiddellijk met water en zeep afwassen en goed naspoelen.
- **Na oogcontact:**  
De ogen gedurende verscheidene minuten onder stromend water afspoelen terwijl de oogspleet geopend blijft. Bij aanhoudende klachten een dokter raadplegen.
- **Na inslikken:** Als de klachten niet minderen, een arts raadplegen
- **4.2 Belangrijkste acute en uitgestelde symptomen en effecten** Geen verdere relevante informatie verkrijgbaar.
- **4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling**  
Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 5: Brandbestrijdingsmaatregelen

- **5.1 Blusmiddelen**
- **Geschikte blusmiddelen:** CO<sub>2</sub>, zand, bluspoeder. Geen water gebruiken.
- **Blusmiddelen die uit veiligheidsoogpunt niet geschikt zijn:** Krachtige waterstraal
- **5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt**  
Geen verdere relevante informatie verkrijgbaar.
- **5.3 Advies voor brandweerlieden**
- **Speciale beschermende kleding:** Geen bijzondere maatregelen nodig.

### RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

- **6.1 Persoonlijke voorzorgsmaatregelen, beschermde uitrusting en noodprocedures**  
Beschermende kleding aantrekken. Niet beschermde personen op afstand houden.
- **6.2 Milieuvoorzorgsmaatregelen:**  
Bij indringen in afvalwater of riolering moet de bevoegde instantie gewaarschuwd worden.  
Niet in de riolering/het oppervlaktewater/het grondwater laten terecht komen.
- **6.3 Insluifings- en reinigingsmethoden en -materiaal:**  
Met vloeistofbindend materiaal (zand, bergmeel, zuurbinder, universele binder, zaagmeel) opnemen.  
Besmet materiaal zoals afval volgens punt 13 verwijderen.  
Voor voldoende ventilatie zorgen.  
Niet met water of waterachtige reinigingsmiddelen wegspoelen.
- **6.4 Verwijzing naar andere rubrieken**  
Informatie inzake veilig gebruik - zie hoofdstuk 7.  
Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.

(Vervolg op blz. 4)

# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

datum van de druk: 28.05.2015

Herziening van: 28.05.2015

Handelsnaam: COBALT NAPHTHENATE

Informatie inzake berging - zie hoofdstuk 13.

(Vervolg van blz. 3)

### RUBRIEK 7: Hantering en opslag

- **7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel**  
 Voor goede ventilatie/afzuiging op de werkplaatsen zorgen.  
 Tanks voorzichtig openen en behandelen.  
 Aërosolvorming vermijden.
- **Informatie m.b.t. brand- en ontploffingsgevaar:**  
 Onststekingsbronnen op afstand houden - niet roken.  
 Beschermen tegen hitte.  
 Maatregelen treffen tegen ontlading van statische elektriciteit.  
 Ademhalingsstoestellen gereedhouden.
- **7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten**
- **Opslag:**
- **Eisen ten opzichte van opslagruimte en tanks:** Geen bijzondere eisen.
- **Informatie m.b.t. gezamenlijke opslag:** Niet noodzakelijk.
- **Verdere inlichtingen over eisen m.b.t. de opslag:**  
 Tanks ondoordringbaar gesloten houden.  
 Tegen hitte en directe zonnestralen beschermen.
- **7.3 Specifiek eindgebruik** Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

- **Aanvullende gegevens m.b.t. de inrichting van technische installaties:** Geen aanvullende gegevens. Zie 7.
- **8.1 Controleparameters**
- **Bestanddelen met grenswaarden die m.b.t. de werkruimte in acht genomen moeten worden:**  
 Het product bevat geen relevante hoeveelheden van stoffen, die met betrekking tot de werkplaatsen, qua grenswaarden gecontroleerd moeten worden.
- **Aanvullende gegevens:** Als basis dienden lijsten die bij opstelling geldig waren.
- **8.2 Maatregelen ter beheersing van blootstelling**
- **Persoonlijke beschermingsvoorzieningen:**
- **Algemene beschermings- en gezondheidsmaatregelen:**  
 Verwijderd houden van eet- en drinkwaren.  
 Verontreinigde kleding onmiddellijk uittrekken.  
 Vóór de pauze en aan het einde van werktijd handen wassen.  
 Beschermende kleding afzonderlijk bewaren.  
 Aanraking met de ogen en de huid vermijden.
- **Ademhalingsbescherming:**  
 Bij korte of geringe belasting ademfiltertoestel; bij intensieve resp. langdurige expositie een van de omringende lucht onafhankelijk ademhalingsstoestel gebruiken.
- **Handbescherming:**



Veiligheidshandschoenen

Het handschoenmateriaal moet ondoorlatend en bestand zijn tegen het product / de stof / de bereiding.  
 Op grond van falende testen kan geen aanbeveling voor handschoenmateriaal voor het product / de bereiding / het chemicaliënmengsel afgegeven worden.  
 Kies handschoenmateriaal rekening houdend met de penetratietijden, de permeatiegraden en de degradatie.

(Vervolg op blz. 5)

# Veiligheidsinformatieblad

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**Handelsnaam: COBALT NAPHTHENATE**

(Vervolg van blz. 4)

- **Handschoenmateriaal**

De keuze van een geschikte handschoen is niet alleen afhankelijk van het materiaal, maar ook van andere kwaliteitskenmerken en verschilt van fabrikant tot fabrikant. Aangezien het product uit meerdere stoffen is samengesteld, is de duurzaamheid van de handschoenmaterialen niet vooraf berekenbaar en moet derhalve vóór het gebruik worden getest.

- **Doordringingstijd van het handschoenmateriaal**

De precieze penetratietijd kunt u te weten komen bij de handschoenfabrikant; houd er rekening mee.

- **Oogbescherming:**



Nauw aansluitende veiligheidsbril

### RUBRIEK 9: Fysische en chemische eigenschappen

- **9.1 Informatie over fysische en chemische basiseigenschappen**

- **Algemene gegevens**

- **Voorkomen:**

<b>Vorm:</b>	Vloeibaar
<b>Kleur:</b>	Volgens de produktbeschrijving
<b>Reuk:</b>	Karakteristiek
<b>Geurdrempelwaarde:</b>	Niet bepaald.

- **pH-waarde:** Niet bepaald.

- **Toestandsverandering**

<b>Smeltpunt/smeltbereik:</b>	Niet bepaald.
<b>Kookpunt/kookpuntbereik:</b>	220 °C

- **Vlampunt:** 40 °C

- **Ontvlambaarheid (vast, gasvormig):** Niet bruikbaar.

- **Ontstekingstemperatuur:** 265 °C

- **Ontbindingstemperatuur:** Niet bepaald.

- **Zelfonsteking:** Het produkt ontbrandt niet uit zichzelf.

- **Ontploffingsgevaar:** Het produkt is niet ontploffingsgevaarlijk, maar de vorming van ontploffingsgevaarlijke damp-/luchtmengsels is mogelijk.

- **Ontploffingsgrenzen:**

<b>Onderste:</b>	0,6 Vol %
<b>Bovenste:</b>	6,5 Vol %

- **Dampspanning bij 20 °C:** 6,6 hPa

- **Dichtheid bij 20 °C:** 0,9675 g/cm<sup>3</sup>

- **Relatieve dichtheid** Niet bepaald.

- **Dampdichtheid** Niet bepaald.

- **Verdampingsnelheid** Niet bepaald.

- **Oplosbaarheid in/mengbaarheid met**

**Water:** Niet resp. gering mengbaar.

- **Verdelingscoëfficiënt (n-octanol/water):** Niet bepaald.

(Vervolg op blz. 6)

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(Vervolg van blz. 5)

- |                                 |   |
|---------------------------------|---|
| · <b>Viscositeit</b>            |   |
| Dynamisch:                      | Niet bepaald.                                   |
| Kinematisch:                    | Niet bepaald.                                   |
| · <b>Oplosmiddelgehalte:</b>    |   |
| Organisch oplosmiddel:          | 45,0 %  |
| VOC (EG)                        | 45,00 %   |
| Gehalte aan vaste bestanddelen: | 65,0 %  |
| · <b>9.2 Overige informatie</b> | Geen verdere relevante informatie verkrijgbaar. |

### RUBRIEK 10: Stabiliteit en reactiviteit

- **10.1 Reactiviteit**
- **10.2 Chemische stabiliteit**
- **Thermische afbraak / te vermijden omstandigheden:** Geen afbraak bij gebruik volgens voorschrift.
- **10.3 Mogelijke gevaarlijke reacties** Geen gevaarlijke reacties bekend.
- **10.4 Te vermijden omstandigheden** Geen verdere relevante informatie verkrijgbaar.
- **10.5 Chemisch op elkaar inwerkende materialen:** Geen verdere relevante informatie verkrijgbaar.
- **10.6 Gevaarlijke ontledingsproducten:** Geen gevaarlijke ontbindingsproducten bekend.

### RUBRIEK 11: Toxicologische informatie

- **11.1 Informatie over toxicologische effecten**
- **Acute toxiciteit:**

- **Indelingsrelevantie LD/LC50-waarden:**

#### 64742-88-7 solvent-nafta (aardolie), middenfractie alifatisch

Oraal	LD50	>6500 mg/kg (rat)
Dermaal	LD50	>3000 mg/kg (rab)
Inhalatief	LC50/4 h	>14 mg/l (rat)

- **Primaire aandoening:**
- **op de huid:** Prikkelde huid en de slijmvliezen.
- **aan het oog:** Prikkeling
- **Overgevoeligheid:**  
Kan overgevoeligheid veroorzaken bij inademing.  
Kan overgevoeligheid veroorzaken bij contact met de huid.
- **Aanvullende toxicologische informatie:**  
Het produkt vertoont op grond van het berekeningsprocédé van de algemene classificatie-richtlijnen van de EG voor toebereidingen in de laatste geldige redactie de volgende gevaren:  
Schadelijk  
Irriterend  
Kanker verwekkend.
- **CMR-effecten (kankerverwekkendheid, mutageniteit en giftigheid voor de voortplanting)**  
Carc. 1B

### RUBRIEK 12: Ecologische informatie

- **12.1 Toxiciteit**
- **Aquatische toxiciteit:** Geen verdere relevante informatie verkrijgbaar.

(Vervolg op blz. 7)

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(Vervolg van blz. 6)

- **12.2 Persistentie en afbreekbaarheid** Geen verdere relevante informatie verkrijgbaar.
- **12.3 Bioaccumulatie** Geen verdere relevante informatie verkrijgbaar.
- **12.4 Mobiliteit in de bodem** Geen verdere relevante informatie verkrijgbaar.
- **Ecotoxische effecten:**
- **Opmerking:** Zeer giftig voor vissen.
- **Verdere ecologische informatie:**
- **Algemene informatie:**  
 Waterbezwaarlijkheid (NL) 3: Kan kanker veroorzaken.  
 Gevaar voor water klasse 3 (D) (Zelfclassificatie): gevaar voor water groot  
 Niet lozen in grondwater, oppervlaktewater of riolering, ook niet in kleine hoeveelheden.  
 Gevaar voor drinkwater zelfs bij het uitlopen van zeer geringe hoeveelheden in de ondergrond.  
 In oppervlaktewater ook giftig voor vissen en plankton.  
 zeer giftig voor in het water levende organismen
- **12.5 Resultaten van PBT- en zPzB-beoordeling**
- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.
- **12.6 Andere schadelijke effecten** Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 13: Instructies voor verwijdering

- **13.1 Afvalverwerkingsmethoden**
- **Aanbeveling:** Mag niet tesamen met huisvuil gestort worden of in de riolering terecht komen.
- **Niet gereinigde verpakkingen:**
- **Aanbeveling:** Afvalverwijdering volgens overheidsbepalingen.

### RUBRIEK 14: Informatie met betrekking tot het vervoer

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>14.1 VN-nummer</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | <p style="text-align: center;">UNI993</p>  |
| <ul style="list-style-type: none"> <li>· <b>14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul> | <p style="text-align: center;">1993 BRANDBARE VLOEISTOF, N.E.G.<br/>           (KUNSTTERPENTIJN, Naphthenic acids, cobalt salts),<br/>           MILIEUGEVAARLIJK</p> <p style="text-align: center;">FLAMMABLE LIQUID, N.O.S. (TURPENTINE<br/>           SUBSTITUTE, Naphthenic acids, cobalt salts), MARINE<br/>           POLLUTANT</p> <p style="text-align: center;">FLAMMABLE LIQUID, N.O.S. (TURPENTINE<br/>           SUBSTITUTE, Naphthenic acids, cobalt salts)</p> |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transportgevarenklasse(n)</b></li> <li>· <b>ADR, IMDG</b></li> </ul>  | <div style="display: flex; align-items: center; justify-content: center;">   </div> <p style="text-align: center;">· <b>klasse</b> <span style="margin-left: 100px;">3 Brandbare vloeistoffen</span></p>   |

(Vervolg op blz. 8)

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(Vervolg van blz. 7)

· <b>Etiket</b>	3
· <b>IATA</b>	
	
· <b>Class</b>	3 Brandbare vloeistoffen
· <b>Label</b>	3
· <b>14.4 Verpakkingsgroep:</b> · <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Milieugevaren:</b>	Produkt bevat milieugevaarlijke stoffen: Naphthenic acids, cobalt salts
· <b>Marine pollutant:</b>	Ja
· <b>Bijzondere kenmerking (ADR):</b>	Symbool (vis en boom)
	Symbool (vis en boom)
· <b>14.6 Bijzondere voorzorgen voor de gebruiker</b>	Waarschuwing: Brandbare vloeistoffen
· <b>Kemler-getal:</b>	30
· <b>EMS-nummer:</b>	F-E, <u>S-E</u>
· <b>14.7 Vervoer in bulk overeenkomstig bijlage II bij MARPOL 73/78 en de IBC-code</b>	Niet bruikbaar.
· <b>Transport/verdere gegevens:</b>	
· <b>ADR</b>	
· <b>Beperkte hoeveelheden (LQ)</b>	5L
· <b>Uitzonderde hoeveelheden (EQ)</b>	Code: E1 Grootste netto hoeveelheid per binnenverpakking: 30 ml Grootste netto hoeveelheid per buitenverpakking: 1000 ml
· <b>Vervoerscategorie</b>	3
· <b>Tunnelbeperkingscode</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>VN "Model Regulation":</b>	UN1993, BRANDBARE VLOEISTOF, N.E.G. (KUNSTTERPENTIJN, Naphthenic acids, cobalt salts), MILIEUGEVAARLIJK, 3, III

## RUBRIEK 15: Regelgeving

### · 15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel

#### · SZW-lijst van kankerverwekkende stoffen

64742-88-7	solvent-nafta (aardolie), middenfractie alifatisch
------------	--

#### · SZW-lijst van mutagene stoffen

64742-88-7	solvent-nafta (aardolie), middenfractie alifatisch
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(Vervolg op blz. 9)

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(Vervolg van blz. 8)

· <b>NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid</b>
--

geen der bestanddelen staat op de lijst.
--

· <b>NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling</b>
--

geen der bestanddelen staat op de lijst.
--

· <b>NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding</b>
--

geen der bestanddelen staat op de lijst.
--

- **Nationale voorschriften:**

- **Aanwijzingen m.b.t. tewerkstellingsbeperking:**

Werknemers mogen aan de kankerverwekkende gevaarlijke stoffen van deze toebereiding niet blootgesteld worden. In uitzonderingsgevallen kan de overheid speciale vergunningen afgeven.

- **Gevaarklasse v. water:** Waterbezwaarlijkheid (NL) 3: Saneringsinspanning A

- **15.2 Chemischeveiligheidsbeoordeling:** Een chemische veiligheidsbeoordeling is niet uitgevoerd.

### RUBRIEK 16: Overige informatie

Deze gegevens zijn gebaseerd op de huidige stand van onze kennis. Zij beschrijven echter geen garantie van produkteigenschappen en vestigen geen contractuele rechtsbetrekking.

- **Relevante zinnen**

H226 Ontvlambare vloeistof en damp.

H304 Kan dodelijk zijn als de stof bij inslikken in de luchtwegen terechtkomt.

H315 Veroorzaakt huidirritatie.

H317 Kan een allergische huidreactie veroorzaken.

H319 Veroorzaakt ernstige oogirritatie.

H334 Kan bij inademing allergie- of astmasymptomen of ademhalingsmoeilijkheden veroorzaken.

H350 Kan kanker veroorzaken.

H400 Zeer giftig voor in het water levende organismen.

H410 Zeer giftig voor in het water levende organismen, met langdurige gevolgen.

- **Afkortingen en acroniemen:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 1B: Carcinogenicity, Hazard Category 1B

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1



# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 28.05.2015

Révision: 28.05.2015

### SECTION 1: Identification de la substance/du mélange et de la société/l'entreprise

· **1.1 Identificateur de produit**

· **Nom du produit:** COBALT NAPHTHENATE

· **Code du produit:** 12500, 12501

· **1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées**  
Pas d'autres informations importantes disponibles.

· **Emploi de la substance / de la préparation** Produits chimiques pour laboratoires

· **1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité**

· **Producteur/fournisseur:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

· **Service chargé des renseignements:** Product safety department

· **1.4 Numéro d'appel d'urgence:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SECTION 2: Identification des dangers

· **2.1 Classification de la substance ou du mélange**

· **Classification selon le règlement (CE) n° 1272/2008**



GHS02 flamme

Flam. Liq. 3      H226 Liquide et vapeurs inflammables.



GHS08 danger pour la santé

Resp. Sens. 1      H334 Peut provoquer des symptômes allergiques ou d'asthme ou des difficultés respiratoires par inhalation.

Carc. 1B      H350 Peut provoquer le cancer.

Asp. Tox. 1      H304 Peut être mortel en cas d'ingestion et de pénétration dans les voies respiratoires.



GHS09 environnement

Aquatic Acute 1      H400 Très toxique pour les organismes aquatiques.

Aquatic Chronic 1      H410 Très toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme.



GHS07

Skin Irrit. 2      H315 Provoque une irritation cutanée.

Eye Irrit. 2      H319 Provoque une sévère irritation des yeux.

Skin Sens. 1      H317 Peut provoquer une allergie cutanée.

(suite page 2)



# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 28.05.2015

Révision: 28.05.2015

Nom du produit: **COBALT NAPHTHENATE**

(suite de la page 1)

- 2.2 Éléments d'étiquetage
- **Étiquetage selon le règlement (CE) n° 1272/2008** Le produit est classifié et étiqueté selon le règlement CLP.
- **Pictogrammes de danger**



GHS02 GHS08 GHS09

- **Mention d'avertissement** Danger
- **Composants dangereux déterminants pour l'étiquetage:**  
Naphthenic acids, cobalt salts  
solvant naphta aliphatique moyen (pétrole)
- **Mentions de danger**  
H226 Liquide et vapeurs inflammables.  
H315 Provoque une irritation cutanée.  
H319 Provoque une sévère irritation des yeux.  
H334 Peut provoquer des symptômes allergiques ou d'asthme ou des difficultés respiratoires par inhalation.  
H317 Peut provoquer une allergie cutanée.  
H350 Peut provoquer le cancer.  
H304 Peut être mortel en cas d'ingestion et de pénétration dans les voies respiratoires.  
H410 Très toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme.
- **Conseils de prudence**  
P301+P310 EN CAS D'INGESTION: Appeler immédiatement un CENTRE ANTIPOISON/un médecin.  
P303+P361+P353 EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): enlever immédiatement les vêtements contaminés. Rincer la peau à l'eau/se doucher.  
P305+P351+P338 EN CAS DE CONTACT AVEC LES YEUX: rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.  
  
P321 Traitement spécifique (voir sur cette étiquette).  
P405 Garder sous clef.  
P501 Éliminer le contenu/réceptacle conformément à la réglementation locale/régionale/nationale/internationale.
- 2.3 Autres dangers
- **Résultats des évaluations PBT et vPvB**
- **PBT:** Non applicable.
- **vPvB:** Non applicable.

### SECTION 3: Composition/informations sur les composants

- 3.2 Caractérisation chimique: Mélanges
- **Description:** Mélange des substances mentionnées à la suite avec des additifs non dangereux.

- **Composants dangereux:**

CAS: 61789-51-3 EINECS: 263-064-0	Naphthenic acids, cobalt salts ⚠ Flam. Liq. 3, H226; ⚠ Resp. Sens. 1, H334; ⚠ Carc. 1B, H350; ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319; ⚠ Skin Sens. 1, H317	50-100%
CAS: 64742-88-7 EINECS: 265-191-7	solvant naphta aliphatique moyen (pétrole) ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304	25-50%

FR

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### SECTION 4: Premiers secours

#### · 4.1 Description des premiers secours

##### · **Après inhalation:**

Donner de l'air frais en abondance et consulter un médecin pour plus de sécurité.

En cas d'inconscience, coucher et transporter la personne en position latérale stable.

##### · **Après contact avec la peau:** Laver immédiatement à l'eau et au savon et bien rincer.

##### · **Après contact avec les yeux:**

Rincer les yeux, pendant plusieurs minutes, sous l'eau courante en écartant bien les paupières. Si les troubles persistent, consulter un médecin.

##### · **Après ingestion:** Si les troubles persistent, consulter un médecin.

#### · 4.2 Principaux symptômes et effets, aigus et différés Pas d'autres informations importantes disponibles.

#### · 4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires

Pas d'autres informations importantes disponibles.

### SECTION 5: Mesures de lutte contre l'incendie

#### · 5.1 Moyens d'extinction

##### · **Moyens d'extinction:** CO<sub>2</sub>, sable, poudre d'extinction. Ne pas utiliser d'eau.

##### · **Produits extincteurs déconseillés pour des raisons de sécurité:** Jet d'eau à grand débit

#### · 5.2 Dangers particuliers résultant de la substance ou du mélange

Pas d'autres informations importantes disponibles.

#### · 5.3 Conseils aux pompiers

##### · **Équipement spécial de sécurité:** Aucune mesure particulière n'est requise.

### SECTION 6: Mesures à prendre en cas de dispersion accidentelle

#### · 6.1 Précautions individuelles, équipement de protection et procédures d'urgence

Porter un équipement de sécurité. Eloigner les personnes non protégées.

#### · 6.2 Précautions pour la protection de l'environnement:

En cas de pénétration dans les eaux ou les égouts, avertir les autorités compétentes.

Ne pas rejeter dans les canalisations, dans les eaux de surface et dans les nappes d'eau souterraines.

#### · 6.3 Méthodes et matériel de confinement et de nettoyage:

Recueillir les liquides à l'aide d'un produit absorbant (sable, kieselguhr, neutralisant d'acide, liant universel, sciure).

Évacuer les matériaux contaminés en tant que déchets conformément au point 13.

Assurer une aération suffisante.

Ne pas rincer à l'eau ou aux produits nettoyants aqueux.

#### · 6.4 Référence à d'autres sections

Afin d'obtenir des informations pour une manipulation sûre, consulter le chapitre 7.

Afin d'obtenir des informations sur les équipements de protection personnels, consulter le chapitre 8.

Afin d'obtenir des informations sur l'élimination, consulter le chapitre 13.

### SECTION 7: Manipulation et stockage

#### · 7.1 Précautions à prendre pour une manipulation sans danger

Veiller à une bonne ventilation/aspiration du poste de travail.

Ouvrir et manipuler les récipients avec précaution.

Éviter la formation d'aérosols.

#### · **Préventions des incendies et des explosions:**

Tenir à l'abri des sources d'inflammation - ne pas fumer.

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Tenir à l'abri de la chaleur.

Prendre des mesures contre les charges électrostatiques.

Tenir des appareils de protection respiratoire prêts.

· **7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités**

· **Stockage:**

· **Exigences concernant les lieux et conteneurs de stockage:** Aucune exigence particulière.

· **Indications concernant le stockage commun:** Pas nécessaire.

· **Autres indications sur les conditions de stockage:**

Tenir les emballages hermétiquement fermés.

Protéger de la forte chaleur et du rayonnement direct du soleil.

· **7.3 Utilisation(s) finale(s) particulière(s)** Pas d'autres informations importantes disponibles.

### SECTION 8: Contrôles de l'exposition/protection individuelle

· **Indications complémentaires pour l'agencement des installations techniques:**

Sans autre indication, voir point 7.

· **8.1 Paramètres de contrôle**

· **Composants présentant des valeurs-seuil à surveiller par poste de travail:**

Le produit ne contient pas en quantité significative des substances présentant des valeurs-seuil à surveiller par poste de travail.

· **Remarques supplémentaires:**

Le présent document s'appuie sur les listes en vigueur au moment de son élaboration.

· **8.2 Contrôles de l'exposition**

· **Équipement de protection individuel:**

· **Mesures générales de protection et d'hygiène:**

Tenir à l'écart des produits alimentaires, des boissons et de la nourriture pour animaux.

Retirer immédiatement les vêtements souillés ou humectés.

Se laver les mains avant les pauses et en fin de travail.

Conserver à part les vêtements de protection.

Éviter tout contact avec les yeux et avec la peau.

· **Protection respiratoire:**

En cas d'exposition faible ou de courte durée, utiliser un filtre respiratoire; en cas d'exposition intense ou durable, utiliser un appareil de respiration indépendant de l'air ambiant.

· **Protection des mains:**



Gants de protection

Le matériau des gants doit être imperméable et résistant au produit / à la substance / à la préparation.

À cause du manque de tests, aucune recommandation pour un matériau de gants pour le produit / la préparation / le mélange de produits chimiques ne peut être donnée.

Choix du matériau des gants en fonction des temps de pénétration, du taux de perméabilité et de la dégradation.

· **Matériau des gants**

Le choix de gants appropriés dépend non seulement du matériau, mais aussi d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre. Puisque le produit représente une préparation composée de plusieurs substances, la résistance des matériaux des gants ne peut pas être calculée à l'avance et doit, alors, être contrôlée avant l'utilisation.

· **Temps de pénétration du matériau des gants**

Le temps de pénétration exact est à déterminer par le fabricant des gants de protection et à respecter.

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## · Protection des yeux:



Lunettes de protection hermétiques

### SECTION 9: Propriétés physiques et chimiques

## · 9.1 Informations sur les propriétés physiques et chimiques essentielles

## · Indications générales

## · Aspect:

Forme:	Liquide
Couleur:	Selon désignation produit
Odeur:	Caractéristique
Seuil olfactif:	Non déterminé.

· valeur du pH: Non déterminé.

## · Changement d'état

Point de fusion:	Non déterminé.
Point d'ébullition:	220 °C

· Point d'éclair 40 °C

· Inflammabilité (solide, gazeux): Non applicable.

· Température d'inflammation: 265 °C

· Température de décomposition: Non déterminé.

· Auto-inflammation: Le produit ne s'enflamme pas spontanément.

· Danger d'explosion: Le produit n'est pas explosif; toutefois, des mélanges explosifs vapeur-air peuvent se former.

## · Limites d'explosion:

Inférieure:	0,6 Vol %
Supérieure:	6,5 Vol %

· Pression de vapeur à 20 °C: 6,6 hPa

Densité à 20 °C:	0,9675 g/cm <sup>3</sup>
Densité relative	Non déterminé.
Densité de vapeur.	Non déterminé.
Vitesse d'évaporation	Non déterminé.

· Solubilité dans/miscibilité avec l'eau: Pas ou peu miscible

· Coefficient de partage (n-octanol/eau): Non déterminé.

## · Viscosité:

Dynamique:	Non déterminé.
Cinématique:	Non déterminé.

## · Teneur en solvants:

Solvants organiques:	45,0 %
VOC (CE)	45,00 %

Teneur en substances solides: 65,0 %

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· **9.2 Autres informations** Pas d'autres informations importantes disponibles.

### SECTION 10: Stabilité et réactivité

- **10.1 Réactivité**
- **10.2 Stabilité chimique**
- **Décomposition thermique/conditions à éviter:** Pas de décomposition en cas d'usage conforme.
- **10.3 Possibilité de réactions dangereuses** Aucune réaction dangereuse connue.
- **10.4 Conditions à éviter** Pas d'autres informations importantes disponibles.
- **10.5 Matières incompatibles:** Pas d'autres informations importantes disponibles.
- **10.6 Produits de décomposition dangereux:** Pas de produits de décomposition dangereux connus

### SECTION 11: Informations toxicologiques

- **11.1 Informations sur les effets toxicologiques**

· **Toxicité aiguë:**

· **Valeurs LD/LC50 déterminantes pour la classification:**

**64742-88-7 solvant naphtha aliphatique moyen (pétrole)**

Oral	LD50	>6500 mg/kg (rat)
Dermique	LD50	>3000 mg/kg (rab)
Inhalatoire	LC50/4 h	>14 mg/l (rat)

- **Effet primaire d'irritation:**
- **de la peau:** Irrite la peau et les muqueuses.
- **des yeux:** Effet d'irritation.
- **Sensibilisation:**
  - Sensibilisation possible par inhalation.
  - Sensibilisation possible par contact avec la peau.
- **Indications toxicologiques complémentaires:**

Selon le procédé de calcul de la dernière version en vigueur de la directive générale CEE sur la classification des préparations, le produit présente les dangers suivants:

Nocif  
Irritant  
Cancérogène.
- **Effets CMR (cancérogène, mutagène et toxique pour la reproduction)**

Carc. 1B

### SECTION 12: Informations écologiques

- **12.1 Toxicité**
- **Toxicité aquatique:** Pas d'autres informations importantes disponibles.
- **12.2 Persistance et dégradabilité** Pas d'autres informations importantes disponibles.
- **12.3 Potentiel de bioaccumulation** Pas d'autres informations importantes disponibles.
- **12.4 Mobilité dans le sol** Pas d'autres informations importantes disponibles.
- **Effets écotoxiques:**
- **Remarque:** Très toxique chez les poissons.
- **Autres indications écologiques:**
- **Indications générales:**
  - Catégorie de pollution des eaux 3 (D) (Classification propre): très polluant
  - Ne pas laisser pénétrer dans la nappe phréatique, les eaux ou les canalisations, même pas en petite quantité.

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*Danger pour l'eau potable dès fuite d'une quantité minime dans le sous-sol.*

*Dans les eaux, également toxique pour les poissons et le plancton.*

*Très toxique pour organismes aquatiques.*

· **12.5 Résultats des évaluations PBT et VPVB**

· **PBT:** Non applicable.

· **vPvB:** Non applicable.

· **12.6 Autres effets néfastes** Pas d'autres informations importantes disponibles.

### SECTION 13: Considérations relatives à l'élimination

· **13.1 Méthodes de traitement des déchets**

· **Recommandation:** Ne doit pas être évacué avec les ordures ménagères. Ne pas laisser pénétrer dans les égouts.

· **Emballages non nettoyés:**

· **Recommandation:** Evacuation conformément aux prescriptions légales.

### SECTION 14: Informations relatives au transport

· **14.1 No ONU**

· **ADR, IMDG, IATA**

UN1993

· **14.2 Nom d'expédition des Nations unies**

· **ADR**

1993 LIQUIDE INFLAMMABLE, N.S.A. (SUCCÉDANÉ D'ESSENCE DE TÉRÉBENTHINE, Naphthenic acids, cobalt salts), DANGEREUX POUR L'ENVIRONNEMENT

· **IMDG**

FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts), MARINE POLLUTANT

· **IATA**

FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts)

· **14.3 Classe(s) de danger pour le transport**

· **ADR, IMDG**



· **Classe**

3 Liquides inflammables.

· **Étiquette**

3

· **IATA**



· **Class**

3 Liquides inflammables.

· **Label**

3

· **14.4 Groupe d'emballage**

· **ADR, IMDG, IATA**

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· <b>14.5 Dangers pour l'environnement:</b>	Le produit contient matières dangereuses pour l'environnement : Naphthenic acids, cobalt salts
· <b>Marine Pollutant:</b>	Oui
· <b>Marquage spécial (ADR):</b>	Signe conventionnel (poisson et arbre) Signe conventionnel (poisson et arbre)
· <b>14.6 Précautions particulières à prendre par l'utilisateur</b>	Attention: Liquides inflammables.
· <b>Indice Kemler:</b>	30
· <b>No EMS:</b>	F-E, <u>S-E</u>
· <b>14.7 Transport en vrac conformément à l'annexe II de la convention Marpol 73/78 et au recueil IBC</b>	Non applicable.
· <b>Indications complémentaires de transport:</b>	
· <b>ADR</b>	
· <b>Quantités limitées (LQ)</b>	5L
· <b>Quantités exceptées (EQ)</b>	Code: E1 Quantité maximale nette par emballage intérieur: 30 ml Quantité maximale nette par emballage extérieur: 1000 ml
· <b>Catégorie de transport</b>	3
· <b>Code de restriction en tunnels</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>"Règlement type" de l'ONU:</b>	UN1993, LIQUIDE INFLAMMABLE, N.S.A. (SUCCÉDANÉ D'ESSENCE DE TÉRÉBENTHINE, Naphthenic acids, cobalt salts), DANGEREUX POUR L'ENVIRONNEMENT, 3, III

### SECTION 15: Informations réglementaires

- **15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement**
- **Prescriptions nationales:**
- **Indications sur les restrictions de travail:**  
Le personnel ne doit pas être exposé aux substances dangereuses cancérigènes contenues dans cette préparation.  
Les autorités peuvent autoriser des exceptions dans des cas particuliers.
- **15.2 Évaluation de la sécurité chimique:** Une évaluation de la sécurité chimique n'a pas été réalisée.

### SECTION 16: Autres informations

Ces indications sont fondées sur l'état actuel de nos connaissances, mais ne constituent pas une garantie quant aux propriétés du produit et ne donnent pas lieu à un rapport juridique contractuel.

- **Phrases importantes**  
H226 Liquide et vapeurs inflammables.  
H304 Peut être mortel en cas d'ingestion et de pénétration dans les voies respiratoires.

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*H315 Provoque une irritation cutanée.**H317 Peut provoquer une allergie cutanée.**H319 Provoque une sévère irritation des yeux.**H334 Peut provoquer des symptômes allergiques ou d'asthme ou des difficultés respiratoires par inhalation.**H350 Peut provoquer le cancer.**H400 Très toxique pour les organismes aquatiques.**H410 Très toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme.***· Acronymes et abréviations:***ADR: Accord européen sur le transport des marchandises dangereuses par Route**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**VOC: Volatile Organic Compounds (USA, EU)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**Flam. Liq. 3: Flammable liquids, Hazard Category 3**Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2**Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2**Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1**Skin Sens. 1: Sensitisation - Skin, Hazard Category 1**Carc. 1B: Carcinogenicity, Hazard Category 1B**Asp. Tox. 1: Aspiration hazard, Hazard Category 1**Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1*



# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 28.05.2015

überarbeitet am: 28.05.2015

### ABSCHNITT 1: Bezeichnung des Stoffs bzw. des Gemischs und des Unternehmens

- **1.1 Produktidentifikator**
- **Handelsname:** COBALT NAPHTHENATE
- **Artikelnummer:** 12500, 12501
- **1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird**  
Keine weiteren relevanten Informationen verfügbar.
- **Verwendung des Stoffs / des Gemisches** Laborchemikalien
- **1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt**
- **Hersteller/Lieferant:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com  
  
Science Services GmbH  
Unterhachinger Str. 75  
81737 München Germany  
Tel: +49(0)89 18 93 668-0  
safety@scienceservices.de  
  
24h Giftnotruf Munchen: +49 (0)89 19240  
Toxikologische Abteilung der II. Medizinischen Klinik  
rechts der Isar, Munchen. - www.toxinfo.org
- **Auskunftgebender Bereich:** Product safety department
- **1.4 Notrufnummer:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### ABSCHNITT 2: Mögliche Gefahren

- **2.1 Einstufung des Stoffs oder Gemischs**
- **Einstufung gemäß Verordnung (EG) Nr. 1272/2008**



GHS02 Flamme

Flam. Liq. 3

H226 Flüssigkeit und Dampf entzündbar.



GHS08 Gesundheitsgefahr

Resp. Sens. 1

H334 Kann bei Einatmen Allergie, asthmaartige Symptome oder Atembeschwerden verursachen.

Carc. 1B

H350 Kann Krebs erzeugen.

Asp. Tox. 1

H304 Kann bei Verschlucken und Eindringen in die Atemwege tödlich sein.



GHS09 Umwelt

Aquatic Acute 1 H400 Sehr giftig für Wasserorganismen.

Aquatic Chronic 1 H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.

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GHS07

Skin Irrit. 2      H315 Verursacht Hautreizungen.  
 Eye Irrit. 2      H319 Verursacht schwere Augenreizung.  
 Skin Sens. 1      H317 Kann allergische Hautreaktionen verursachen.

### · 2.2 Kennzeichnungselemente

#### · Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008

Das Produkt ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.

#### · Gefahrenpiktogramme



GHS02    GHS08    GHS09

#### · Signalwort Gefahr

#### · Gefahrbestimmende Komponenten zur Etikettierung:

Naphthenic acids, cobalt salts  
 Lösungsmittelnaphtha (Erdöl), mittlere aliphatische

#### · Gefahrenhinweise

H226 Flüssigkeit und Dampf entzündbar.  
 H315 Verursacht Hautreizungen.  
 H319 Verursacht schwere Augenreizung.  
 H334 Kann bei Einatmen Allergie, asthmaartige Symptome oder Atembeschwerden verursachen.  
 H317 Kann allergische Hautreaktionen verursachen.  
 H350 Kann Krebs erzeugen.  
 H304 Kann bei Verschlucken und Eindringen in die Atemwege tödlich sein.  
 H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.

#### · Sicherheitshinweise

P301+P310 BEI VERSCHLUCKEN: Sofort GIFTINFORMATIONSZENTRUM/Arzt anrufen.  
 P303+P361+P353 BEI KONTAKT MIT DER HAUT (oder dem Haar): Alle beschmutzten, getränkten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen/duschen.  
 P305+P351+P338 BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.  
 P321 Besondere Behandlung (siehe auf diesem Kennzeichnungsetikett).  
 P405 Unter Verschluss aufbewahren.  
 P501 Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen / internationalen Vorschriften.

#### · Zusätzliche Angaben:

Nur für gewerbliche Anwender.

#### · 2.3 Sonstige Gefahren

#### · Ergebnisse der PBT- und vPvB-Beurteilung

- PBT: Nicht anwendbar.
- vPvB: Nicht anwendbar.

## ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

### · 3.2 Chemische Charakterisierung: Gemische

· Beschreibung: Gemisch aus nachfolgend angeführten Stoffen mit ungefährlichen Beimengungen.

(Fortsetzung auf Seite 3)

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(Fortsetzung von Seite 2)

· <b>Gefährliche Inhaltsstoffe:</b>		
CAS: 61789-51-3 EINECS: 263-064-0	Naphthenic acids, cobalt salts ⚠ Flam. Liq. 3, H226; ⚠ Resp. Sens. 1, H334; ⚠ Carc. 1B, H350; ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319; ⚠ Skin Sens. 1, H317	50-100%
CAS: 64742-88-7 EINECS: 265-191-7	Lösungsmittelnaphtha (Erdöl), mittlere aliphatische ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304	25-50%

### ABSCHNITT 4: Erste-Hilfe-Maßnahmen

- **4.1 Beschreibung der Erste-Hilfe-Maßnahmen**
- **Nach Einatmen:**  
Reichlich Frischluftzufuhr und sicherheitshalber Arzt aufsuchen.  
Bei Bewußtlosigkeit Lagerung und Transport in stabiler Seitenlage.
- **Nach Hautkontakt:** Sofort mit Wasser und Seife abwaschen und gut nachspülen.
- **Nach Augenkontakt:**  
Augen mehrere Minuten bei geöffnetem Lidspalt unter fließendem Wasser spülen. Bei anhaltenden Beschwerden Arzt konsultieren.
- **Nach Verschlucken:** Bei anhaltenden Beschwerden Arzt konsultieren.
- **4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen**  
Keine weiteren relevanten Informationen verfügbar.
- **4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung**  
Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

- **5.1 Löschmittel**
- **Geeignete Löschmittel:** CO<sub>2</sub>, Sand, Löschpulver. Kein Wasser verwenden.
- **Aus Sicherheitsgründen ungeeignete Löschmittel:** Wasser im Vollstrahl
- **5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren**  
Keine weiteren relevanten Informationen verfügbar.
- **5.3 Hinweise für die Brandbekämpfung**
- **Besondere Schutzausrüstung:** Keine besonderen Maßnahmen erforderlich.

### ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

- **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**  
Schutzausrüstung tragen. Ungeschützte Personen fernhalten.
- **6.2 Umweltschutzmaßnahmen:**  
Bei Eindringen in Gewässer oder Kanalisation zuständige Behörden benachrichtigen.  
Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.
- **6.3 Methoden und Material für Rückhaltung und Reinigung:**  
Mit flüssigkeitsbindendem Material (Sand, Kieselgur, Säurebinder, Universalbinder, Sägemehl) aufnehmen.  
Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.  
Für ausreichende Lüftung sorgen.  
Nicht mit Wasser oder wäßrigen Reinigungsmitteln wegspülen.
- **6.4 Verweis auf andere Abschnitte**  
Informationen zur sicheren Handhabung siehe Abschnitt 7.  
Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.

(Fortsetzung auf Seite 4)

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Informationen zur Entsorgung siehe Abschnitt 13.

### ABSCHNITT 7: Handhabung und Lagerung

- **7.1 Schutzmaßnahmen zur sicheren Handhabung**  
Für gute Belüftung/Absaugung am Arbeitsplatz sorgen.  
Behälter mit Vorsicht öffnen und handhaben.  
Aerosolbildung vermeiden.
- **Hinweise zum Brand- und Explosionsschutz:**  
Zündquellen fernhalten - nicht rauchen.  
Vor Hitze schützen.  
Maßnahmen gegen elektrostatische Aufladung treffen.  
Atemschutzgeräte bereithalten.
- **7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten**
- **Lagerung:**
- **Anforderung an Lagerräume und Behälter:** Keine besonderen Anforderungen.
- **Zusammenlagerungshinweise:** Nicht erforderlich.
- **Weitere Angaben zu den Lagerbedingungen:**  
Behälter dicht geschlossen halten.  
Vor Hitze und direkter Sonnenbestrahlung schützen.
- **Lagerklasse:**
- **Klassifizierung nach Betriebsicherheitsverordnung (BetrSichV):** Entzündlich
- **7.3 Spezifische Endanwendungen** Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

- **Zusätzliche Hinweise zur Gestaltung technischer Anlagen:** Keine weiteren Angaben, siehe Abschnitt 7.

- **8.1 Zu überwachende Parameter**

- **Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:**

64742-88-7 Lösungsmittelnaphtha (Erdöl), mittlere aliphatische

MAK | vgl.Abschn.Xb

- **Zusätzliche Hinweise:** Als Grundlage dienen die bei der Erstellung gültigen Listen.

- **8.2 Begrenzung und Überwachung der Exposition**

- **Persönliche Schutzausrüstung:**

- **Allgemeine Schutz- und Hygienemaßnahmen:**

Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.

Beschmutzte, getränkte Kleidung sofort ausziehen.

Vor den Pausen und bei Arbeitsende Hände waschen.

Getrennte Aufbewahrung der Schutzkleidung.

Berührung mit den Augen und der Haut vermeiden.

- **Atemschutz:**

Bei kurzzeitiger oder geringer Belastung Atemfiltergerät; bei intensiver bzw. längerer Exposition unluftunabhängiges Atemschutzgerät verwenden.

- **Handschutz:**



Schutzhandschuhe

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Das Handschuhmaterial muss undurchlässig und beständig gegen das Produkt / den Stoff / die Zubereitung sein. Aufgrund fehlender Tests kann keine Empfehlung zum Handschuhmaterial für das Produkt / die Zubereitung / das Chemikaliengemisch abgegeben werden.

Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.

- **Handschuhmaterial**

Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich. Da das Produkt eine Zubereitung aus mehreren Stoffen darstellt, ist die Beständigkeit von Handschuhmaterialien nicht vorausberechenbar und muß deshalb vor dem Einsatz überprüft werden.

- **Durchdringungszeit des Handschuhmaterials**

Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.

- **Augenschutz:**



Dichtschließende Schutzbrille

### ABSCHNITT 9: Physikalische und chemische Eigenschaften

- **9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften**

- **Allgemeine Angaben**

- **Aussehen:**

**Form:** Flüssig  
**Farbe:** Gemäß Produktbezeichnung

- **Geruch:** Charakteristisch

- **Geruchsschwelle:** Nicht bestimmt.

- **pH-Wert:** Nicht bestimmt.

- **Zustandsänderung**

**Schmelzpunkt/Schmelzbereich:** Nicht bestimmt.

**Siedepunkt/Siedebereich:** 220 °C

- **Flammpunkt:** 40 °C

- **Entzündlichkeit (fest, gasförmig):** Nicht anwendbar.

- **Zündtemperatur:** 265 °C

- **Zersetzungstemperatur:** Nicht bestimmt.

- **Selbstentzündlichkeit:** Das Produkt ist nicht selbstentzündlich.

- **Explosionsgefahr:** Das Produkt ist nicht explosionsgefährlich, jedoch ist die Bildung explosionsgefährlicher Dampf-/Luftgemische möglich.

- **Explosionsgrenzen:**

**Untere:** 0,6 Vol %

**Obere:** 6,5 Vol %

- **Dampfdruck bei 20 °C:** 6,6 hPa

- **Dichte bei 20 °C:** 0,9675 g/cm<sup>3</sup>

- **Relative Dichte** Nicht bestimmt.

- **Dampfdichte** Nicht bestimmt.

- **Verdampfungsgeschwindigkeit** Nicht bestimmt.

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- |   |  |
|---|--|
| <b>· Löslichkeit in / Mischbarkeit mit Wasser:</b>  | Nicht bzw. wenig mischbar.                         |
| <b>· Verteilungskoeffizient (n-Octanol/Wasser):</b> | Nicht bestimmt.                                    |
| <b>· Viskosität:</b>                                |  |
| <b>Dynamisch:</b>                                   | Nicht bestimmt.                                    |
| <b>Kinematisch:</b>                                 | Nicht bestimmt.                                    |
| <b>· Lösemittelgehalt:</b>                          |  |
| <b>Organische Lösemittel:</b>                       | 45,0 %   |
| <b>VOC (EU)</b>                                     | 45,00 %  |
| <b>· Festkörpergehalt:</b>                          | 65,0 %   |
| <b>· 9.2 Sonstige Angaben</b>                       | Keine weiteren relevanten Informationen verfügbar. |

### ABSCHNITT 10: Stabilität und Reaktivität

- **10.1 Reaktivität**
- **10.2 Chemische Stabilität**
- **Thermische Zersetzung / zu vermeidende Bedingungen:**  
Keine Zersetzung bei bestimmungsgemäßer Verwendung.
- **10.3 Möglichkeit gefährlicher Reaktionen** Keine gefährlichen Reaktionen bekannt.
- **10.4 Zu vermeidende Bedingungen** Keine weiteren relevanten Informationen verfügbar.
- **10.5 Unverträgliche Materialien:** Keine weiteren relevanten Informationen verfügbar.
- **10.6 Gefährliche Zersetzungsprodukte:** Keine gefährlichen Zersetzungsprodukte bekannt.

### ABSCHNITT 11: Toxikologische Angaben

- **11.1 Angaben zu toxikologischen Wirkungen**
- **Akute Toxizität:**

- **Einstufungsrelevante LD/LC50-Werte:**

**64742-88-7 Lösungsmittelnaphtha (Erdöl), mittlere aliphatische**

Oral	LD50	>6500 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalativ	LC50/4 h	>14 mg/l (rat)

- **Primäre Reizwirkung:**
- **an der Haut:** Reizt die Haut und die Schleimhäute.
- **am Auge:** Reizwirkung.
- **Sensibilisierung:**  
Durch Einatmen Sensibilisierung möglich.  
Durch Hautkontakt Sensibilisierung möglich.
- **Zusätzliche toxikologische Hinweise:**  
Das Produkt weist aufgrund des Berechnungsverfahrens der Allgemeinen Einstufungsrichtlinie der EG für Zubereitungen in der letztgültigen Fassung folgende Gefahren auf:  
Gesundheitsschädlich  
Reizend  
Krebserzeugend.

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- **CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)**
- **Carc. 1B**

### ABSCHNITT 12: Umweltbezogene Angaben

- **12.1 Toxizität**
- **Aquatische Toxizität:** Keine weiteren relevanten Informationen verfügbar.
- **12.2 Persistenz und Abbaubarkeit** Keine weiteren relevanten Informationen verfügbar.
- **12.3 Bioakkumulationspotenzial** Keine weiteren relevanten Informationen verfügbar.
- **12.4 Mobilität im Boden** Keine weiteren relevanten Informationen verfügbar.
- **Ökotoxische Wirkungen:**
- **Bemerkung:** Sehr giftig für Fische.
- **Weitere ökologische Hinweise:**
- **Allgemeine Hinweise:**  
Wassergefährdungsklasse 3 (Selbsteinstufung): stark wassergefährdend  
Nicht in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen, auch nicht in kleinen Mengen.  
Trinkwassergefährdung bereits beim Auslaufen geringster Mengen in den Untergrund.  
In Gewässern auch giftig für Fische und Plankton.  
sehr giftig für Wasserorganismen
- **12.5 Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.
- **12.6 Andere schädliche Wirkungen** Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 13: Hinweise zur Entsorgung

- **13.1 Verfahren der Abfallbehandlung**
- **Empfehlung:** Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.
- **Ungereinigte Verpackungen:**
- **Empfehlung:** Entsorgung gemäß den behördlichen Vorschriften.

### ABSCHNITT 14: Angaben zum Transport

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Nummer</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | UN1993   |
| <ul style="list-style-type: none"> <li>· <b>14.2 Ordnungsgemäße UN-Versandbezeichnung</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul> | 1993 ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G.<br>(TERPENTINÖLERSATZ, Naphthenic acids, cobalt salts),<br>UMWELTGEFÄHRDEND<br><br>FLAMMABLE LIQUID, N.O.S. (TURPENTINE<br>SUBSTITUTE, Naphthenic acids, cobalt salts), MARINE<br>POLLUTANT<br><br>FLAMMABLE LIQUID, N.O.S. (TURPENTINE<br>SUBSTITUTE, Naphthenic acids, cobalt salts) |

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· **14.3 Transportgefahrenklassen**

· **ADR, IMDG**



· **Klasse** 3 Entzündbare flüssige Stoffe  
 · **Gefahrzettel** 3

· **IATA**



· **Class** 3 Entzündbare flüssige Stoffe  
 · **Label** 3

· **14.4 Verpackungsgruppe**

· **ADR, IMDG, IATA** III

· **14.5 Umweltgefahren:**

Das Produkt enthält umweltgefährdende Stoffe:  
 Naphthenic acids, cobalt salts

· **Marine pollutant:**

Ja  
 Symbol (Fisch und Baum)

· **Besondere Kennzeichnung (ADR):**

Symbol (Fisch und Baum)

· **14.6 Besondere Vorsichtsmaßnahmen für den Verwender**

Achtung: Entzündbare flüssige Stoffe

· **Kemler-Zahl:**

30

· **EMS-Nummer:**

F-E,S-E

· **14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens 73/78 und gemäß IBC-Code**

Nicht anwendbar.

· **Transport/weitere Angaben:**

· **ADR**

· **Begrenzte Menge (LQ)**

5L

· **Freigestellte Mengen (EQ)**

Code: E1

Höchste Nettomenge je Innenverpackung: 30 ml

Höchste Nettomenge je Außenverpackung: 1000 ml

· **Beförderungskategorie**

3

· **Tunnelbeschränkungscode**

D/E

· **IMDG**

· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

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- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul> | <p>UN1993, ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G.<br/>(TERPENTINÖLERSATZ, Naphthenic acids, cobalt salts),<br/>UMWELTGEFÄHRDEND, 3, III</p> |
|---|---|

### ABSCHNITT 15: Rechtsvorschriften

- **15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch**
- **Nationale Vorschriften:**
- **Hinweise zur Beschäftigungsbeschränkung:**  
Arbeitnehmer dürfen den in dieser Zubereitung enthaltenen krebserzeugenden Gefahrstoffen nicht ausgesetzt sein. Im Einzelfall kann die Behörde Ausnahmen zulassen.
- **Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV):** Entzündlich
- **Technische Anleitung Luft:**

Klasse	Anteil in %
NK	45,0
- **Wassergefährdungsklasse: WGK 3 (Selbsteinstufung):** stark wassergefährdend.
- **15.2 Stoffsicherheitsbeurteilung:** Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.

### ABSCHNITT 16: Sonstige Angaben

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

- **Relevante Sätze**  
H226 Flüssigkeit und Dampf entzündbar.  
H304 Kann bei Verschlucken und Eindringen in die Atemwege tödlich sein.  
H315 Verursacht Hautreizungen.  
H317 Kann allergische Hautreaktionen verursachen.  
H319 Verursacht schwere Augenreizung.  
H334 Kann bei Einatmen Allergie, asthmaartige Symptome oder Atembeschwerden verursachen.  
H350 Kann Krebs erzeugen.  
H400 Sehr giftig für Wasserorganismen.  
H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.
- **Abkürzungen und Akronyme:**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
Flam. Liq. 3: Flammable liquids, Hazard Category 3  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
Carc. 1B: Carcinogenicity, Hazard Category 1B  
Asp. Tox. 1: Aspiration hazard, Hazard Category 1

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*Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1*  
*Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1*

(Fortsetzung von Seite 9)

DE

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 28.05.2015

Revisione: 28.05.2015

### SEZIONE 1: Identificazione della sostanza o della miscela e della società/impresa

· **1.1 Identificatore del prodotto**

· **Denominazione commerciale:** COBALT NAPHTHENATE

· **Articolo numero:** 12500, 12501

· **1.2 Usi pertinenti identificati della sostanza o miscela e usi sconsigliati** Non sono disponibili altre informazioni.

· **Utilizzazione della Sostanza / del Preparato** Prodotti chimici per laboratorio

· **1.3 Informazioni sul fornitore della scheda di dati di sicurezza**

· **Produttore/fornitore:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

Societa Italiana Chimici

Via Rio Nell Ellba 140

00138 Rome, Italy

Tel: 39 06 8800211

Fax: 39 30 06 8815313

Web: www.sichim.com

· **Informazioni fornite da:** Product safety department

· **1.4 Numero telefonico di emergenza:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SEZIONE 2: Identificazione dei pericoli

· **2.1 Classificazione della sostanza o della miscela**

· **Classificazione secondo il regolamento (CE) n. 1272/2008**



GHS02 fiamma

Flam. Liq. 3

H226 Liquido e vapori infiammabili.



GHS08 pericolo per la salute

Resp. Sens. 1

H334 Può provocare sintomi allergici o asmatici o difficoltà respiratorie se inalato.

Carc. 1B

H350 Può provocare il cancro.

Asp. Tox. 1

H304 Può essere letale in caso di ingestione e di penetrazione nelle vie respiratorie.



GHS09 ambiente

Aquatic Acute 1 H400 Molto tossico per gli organismi acquatici.

Aquatic Chronic 1 H410 Molto tossico per gli organismi acquatici con effetti di lunga durata.



GHS07

Skin Irrit. 2

H315 Provoca irritazione cutanea.

(continua a pagina 2)

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

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**Denominazione commerciale: COBALT NAPHTHENATE**

(Segue da pagina 1)

Eye Irrit. 2            H319 Provoca grave irritazione oculare.  
Skin Sens. 1            H317 Può provocare una reazione allergica cutanea.

· **2.2 Elementi dell'etichetta**

· **Etichettatura secondo il regolamento (CE) n. 1272/2008**

Il prodotto è classificato ed etichettato conformemente al regolamento CLP.

· **Pittogrammi di pericolo**



GHS02    GHS08    GHS09

· **Avvertenza Pericolo**

· **Componenti pericolosi che ne determinano l'etichettatura:**

Naphthenic acids, cobalt salts  
nafta solvente (petrolio), alifatica intermedia

· **Indicazioni di pericolo**

H226 Liquido e vapori infiammabili.  
H315 Provoca irritazione cutanea.  
H319 Provoca grave irritazione oculare.  
H334 Può provocare sintomi allergici o asmatici o difficoltà respiratorie se inalato.  
H317 Può provocare una reazione allergica cutanea.  
H350 Può provocare il cancro.  
H304 Può essere letale in caso di ingestione e di penetrazione nelle vie respiratorie.  
H410 Molto tossico per gli organismi acquatici con effetti di lunga durata.

· **Consigli di prudenza**

P301+P310            IN CASO DI INGESTIONE: contattare immediatamente un CENTRO ANTIVELENI/un medico.  
P303+P361+P353 IN CASO DI CONTATTO CON LA PELLE (o con i capelli): togliersi di dosso immediatamente tutti gli indumenti contaminati. Sciacquare la pelle/fare una doccia.  
P305+P351+P338 IN CASO DI CONTATTO CON GLI OCCHI: sciacquare accuratamente per parecchi minuti. Togliere le eventuali lenti a contatto se è agevole farlo. Continuare a sciacquare.  
P321                    Trattamento specifico (vedere su questa etichetta).  
P405                    Conservare sotto chiave.  
P501                    Smaltire il prodotto/recipiente in conformità con le disposizioni locali / regionali / nazionali / internazionali.

· **2.3 Altri pericoli**

· **Risultati della valutazione PBT e vPvB**

· **PBT:** Non applicabile.  
· **vPvB:** Non applicabile.

**SEZIONE 3: Composizione/informazioni sugli ingredienti**

· **3.2 Caratteristiche chimiche: Miscela**

· **Descrizione:** Miscela delle seguenti sostanze con additivi non pericolosi.

· **Sostanze pericolose:**

CAS: 61789-51-3	Naphthenic acids, cobalt salts	50-100%
EINECS: 263-064-0		

(continua a pagina 3)




## Scheda di dati di sicurezza ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 28.05.2015

Revisione: 28.05.2015

**Denominazione commerciale: COBALT NAPTHENATE**

(Segue da pagina 2)

CAS: 64742-88-7	nafta solvente (petrolio), alifatica intermedia	25-50%
EINECS: 265-191-7	 Flam. Liq. 3,  H226;  Asp. Tox. 1, H304	

### SEZIONE 4: Misure di primo soccorso

· **4.1 Descrizione delle misure di primo soccorso**

· **Inalazione:**

Portare il soggetto in zona molto ben areata e per sicurezza consultare un medico.

Se il soggetto è svenuto provvedere a tenerlo durante il trasporto in posizione stabile su un fianco.

· **Contatto con la pelle:** Lavare immediatamente con acqua e sapone sciacquando accuratamente.

· **Contatto con gli occhi:**

Lavare con acqua corrente per diversi minuti tenendo le palpebre ben aperte. Se persiste il dolore consultare il medico.

· **Ingestione:** Se il dolore persiste consultare il medico.

· **4.2 Principali sintomi ed effetti, sia acuti che ritardati** Non sono disponibili altre informazioni.

· **4.3 Indicazione della eventuale necessità di consultare immediatamente un medico e di trattamenti speciali**

Non sono disponibili altre informazioni.

### SEZIONE 5: Misure antincendio

· **5.1 Mezzi di estinzione**

· **Mezzi di estinzione idonei:** CO<sub>2</sub>, sabbia, polvere. Non usare acqua.

· **Mezzi di estinzione inadatti per motivi di sicurezza:** Getti d'acqua

· **5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela** Non sono disponibili altre informazioni.

· **5.3 Raccomandazioni per gli addetti all'estinzione degli incendi**

· **Mezzi protettivi specifici:** Non sono richiesti provvedimenti particolari.

### SEZIONE 6: Misure in caso di rilascio accidentale

· **6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza**

Indossare equipaggiamento protettivo. Allontanare le persone non equipaggiate.

· **6.2 Precauzioni ambientali:**

In caso di infiltrazione nei corpi d'acqua o nelle fognature avvertire le autorità competenti.

Impedire infiltrazioni nella fognatura/nelle acque superficiali/nelle acque freatiche.

· **6.3 Metodi e materiali per il contenimento e per la bonifica:**

Raccogliere il liquido con materiale assorbente (sabbia, tripoli, legante di acidi, legante universale, segatura).

Smaltimento del materiale contaminato conformemente al punto 13.

Provvedere ad una sufficiente areazione.

Non dilavare con acqua o detersivi liquidi.

· **6.4 Riferimento ad altre sezioni**

Per informazioni relative ad una manipolazione sicura, vedere capitolo 7.

Per informazioni relative all'equipaggiamento protettivo ad uso personale vedere Capitolo 8.

Per informazioni relative allo smaltimento vedere Capitolo 13.

### SEZIONE 7: Manipolazione e immagazzinamento

· **7.1 Precauzioni per la manipolazione sicura**

Accurata ventilazione/aspirazione nei luoghi di lavoro.

Aprire e manipolare i recipienti con cautela.

Evitare la formazione di aerosol.

(continua a pagina 4)

**Scheda di dati di sicurezza**  
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**Denominazione commerciale: COBALT NAPHTHENATE**

(Segue da pagina 3)

- **Indicazioni in caso di incendio ed esplosione:**  
Tenere lontano da fonti di calore, non fumare.  
Proteggere dal calore.  
Adottare provvedimenti contro cariche elettrostatiche.  
Tener pronto il respiratore.
- **7.2 Condizioni per l'immagazzinamento sicuro, comprese eventuali incompatibilità**
- **Stoccaggio:**
- **Requisiti dei magazzini e dei recipienti:** Non sono richiesti requisiti particolari.
- **Indicazioni sullo stoccaggio misto:** Non necessario.
- **Ulteriori indicazioni relative alle condizioni di immagazzinamento:**  
Mantenere i recipienti ermeticamente chiusi.  
Proteggere dal calore e dai raggi diretti del sole.
- **7.3 Usi finali specifici** Non sono disponibili altre informazioni.

### SEZIONE 8: Controllo dell'esposizione/protezione individuale

- **Ulteriori indicazioni sulla struttura di impianti tecnici:** Nessun dato ulteriore, vedere punto 7.
- **8.1 Parametri di controllo**
- **Componenti i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro:**  
Il prodotto non contiene quantità rilevanti di sostanze i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro.
- **Ulteriori indicazioni:** Le liste valide alla data di compilazione sono state usate come base.
- **8.2 Controlli dell'esposizione**
- **Mezzi protettivi individuali:**
- **Norme generali protettive e di igiene del lavoro:**  
Tenere lontano da cibo, bevande e foraggi.  
Togliere immediatamente gli abiti contaminati.  
Lavarsi le mani prima dell'intervallo o a lavoro terminato.  
Custodire separatamente l'equipaggiamento protettivo.  
Evitare il contatto con gli occhi e la pelle.
- **Maschera protettiva:**  
Nelle esposizioni brevi e minime utilizzare la maschera; nelle esposizioni più intense e durature indossare l'autorespiratore.
- **Guanti protettivi:**



Guanti protettivi

Il materiale dei guanti deve essere impermeabile e stabile contro il prodotto/ la sostanza/ la formulazione.  
A causa della mancanza di tests non può essere consigliato alcun tipo di materiale per i guanti con cui manipolare il prodotto / la formulazione / la miscela di sostanze chimiche.  
Scelta del materiale dei guanti in considerazione dei tempi di passaggio, dei tassi di permeazione e della degradazione.

- **Materiale dei guanti**  
La scelta dei guanti adatti non dipende soltanto dal materiale bensì anche da altre caratteristiche di qualità variabili da un produttore a un altro. Poiché il prodotto rappresenta una formulazione di più sostanze, la stabilità dei materiali dei guanti non è calcolabile in anticipo e deve essere testata prima dell'impiego
- **Tempo di permeazione del materiale dei guanti**  
Richiedere dal fornitore dei guanti il tempo di passaggio preciso il quale deve essere rispettato.

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· **Occhiali protettivi:**

Occhiali protettivi a tenuta

### SEZIONE 9: Proprietà fisiche e chimiche

#### · 9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali

##### · Indicazioni generali

##### · Aspetto:

**Forma:**

Liquido

**Colore:**

In conformità con la denominazione del prodotto

##### · Odore:

Caratteristico

##### · Soglia olfattiva:

Non definito.

##### · valori di pH:

Non definito.

##### · Cambiamento di stato

**Temperatura di fusione/ambito di fusione:**

Non definito.

**Temperatura di ebollizione/ambito di ebollizione:** 220 °C

##### · Punto di infiammabilità:

40 °C

##### · Infiammabilità (solido, gassoso):

Non applicabile.

##### · Temperatura di accensione:

265 °C

##### · Temperatura di decomposizione:

Non definito.

##### · Autoaccensione:

Prodotto non autoinfiammabile.

##### · Pericolo di esplosione:

Prodotto non è esplosivo, è tuttavia possibile la formazione di miscele di vapori/aria esplosive.

##### · Limiti di infiammabilità:

**Inferiore:**

0,6 Vol %

**Superiore:**

6,5 Vol %

##### · Tensione di vapore a 20 °C:

6,6 hPa

##### · Densità a 20 °C:

0,9675 g/cm<sup>3</sup>

##### · Densità relativa

Non definito.

##### · Densità del vapore

Non definito.

##### · Velocità di evaporazione

Non definito.

##### · Solubilità in/Miscibilità con acqua:

Poco e/o non miscibile.

##### · Coefficiente di distribuzione (n-Octanol/acqua):

Non definito.

##### · Viscosità:

**Dinamica:**

Non definito.

**Cinematica:**

Non definito.

##### · Tenore del solvente:

**Solventi organici:**

45,0 %

**VOC (CE)**

45,00 %

##### · Contenuto solido:

65,0 %

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· 9.2 Altre informazioni

Non sono disponibili altre informazioni.

### SEZIONE 10: Stabilità e reattività

- 10.1 Reattività
- 10.2 Stabilità chimica
- **Decomposizione termica/ condizioni da evitare:** Il prodotto non si decompone se utilizzato secondo le norme.
- 10.3 Possibilità di reazioni pericolose Non sono note reazioni pericolose.
- 10.4 Condizioni da evitare Non sono disponibili altre informazioni.
- 10.5 Materiali incompatibili: Non sono disponibili altre informazioni.
- 10.6 Prodotti di decomposizione pericolosi: Non sono noti prodotti di decomposizione pericolosi.

### SEZIONE 11: Informazioni tossicologiche

- 11.1 Informazioni sugli effetti tossicologici
- Tossicità acuta:

· Valori LD/LC50 rilevanti per la classificazione:

64742-88-7 nafta solvente (petrolio), alifatica intermedia

Orale	LD50	>6500 mg/kg (rat)
Cutaneo	LD50	>3000 mg/kg (rab)
Per inalazione	LC50/4 h	>14 mg/l (rat)

- **Irritabilità primaria:**
- **sulla pelle:** Irrita la pelle e le mucose.
- **sugli occhi:** Irritante.
- **Sensibilizzazione:**
- Può provocare sensibilizzazione se inalato.
- Può provocare sensibilizzazione a contatto con la pelle.
- **Ulteriori dati tossicologici:**
- Il prodotto, in base al metodo di calcolo della direttiva generale della Comunità sulla classificazione dei preparati nella sua ultima versione valida, presenta i seguenti rischi:
  - Nocivo
  - Irritante
  - Cancerogeno.
- **Effetti CMR (cancerogenicità, mutagenicità e tossicità per la riproduzione)**
- Carc. 1B

### SEZIONE 12: Informazioni ecologiche

- 12.1 Tossicità
- **Tossicità acquatica:** Non sono disponibili altre informazioni.
- 12.2 Persistenza e degradabilità Non sono disponibili altre informazioni.
- 12.3 Potenziale di bioaccumulo Non sono disponibili altre informazioni.
- 12.4 Mobilità nel suolo Non sono disponibili altre informazioni.
- **Effetti tossici per l'ambiente:**
- **Osservazioni:** Molto tossico per i pesci.
- **Ulteriori indicazioni in materia ambientale:**
- **Ulteriori indicazioni:**
- Pericolosità per le acque classe 3 (D) (Autoclassificazione): molto pericoloso
- Non immettere nelle acque freatiche, nei corsi d'acqua o nelle fognature, anche in piccole dosi.

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*Pericolo per le acque potabili anche in caso di perdite nel sottosuolo di quantità minime di prodotto.*

*Tossico per pesci e plancton.*

*Molto tossico per gli organismi acquatici*

· **12.5 Risultati della valutazione PBT e vPvB**

· **PBT:** Non applicabile.

· **vPvB:** Non applicabile.

· **12.6 Altri effetti avversi** Non sono disponibili altre informazioni.

### SEZIONE 13: Considerazioni sullo smaltimento

· **13.1 Metodi di trattamento dei rifiuti**

· **Consigli:** Non smaltire il prodotto insieme ai rifiuti domestici Non immettere nelle fognature.

· **Imballaggi non puliti:**

· **Consigli:** Smaltimento in conformità con le disposizioni amministrative.

### SEZIONE 14: Informazioni sul trasporto

· **14.1 Numero ONU**

· **ADR, IMDG, IATA**

UN1993

· **14.2 Nome di spedizione dell'ONU**

· **ADR**

1993 LIQUIDO INFIAMMABILE, N.A.S. (SUCCEDANEO DELL'ESSENZA DI TREMENTINA, Naphthenic acids, cobalt salts), PERICOLOSO PER L'AMBIENTE

· **IMDG**

FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts), MARINE POLLUTANT

· **IATA**

FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts)

· **14.3 Classi di pericolo connesso al trasporto**

· **ADR, IMDG**



· **Classe**

3 Liquidi infiammabili

· **Etichetta**

3

· **IATA**



· **Class**

3 Liquidi infiammabili

· **Label**

3

· **14.4 Gruppo di imballaggio**

· **ADR, IMDG, IATA**

III

· **14.5 Pericoli per l'ambiente:**

*Il prodotto contiene materie pericolose per l'ambiente:  
Naphthenic acids, cobalt salts*

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· <b>Marine pollutant:</b>	Sì Simbolo (pesce e albero)
· <b>Marchatura speciali (ADR):</b>	Simbolo (pesce e albero)
· <b>14.6 Precauzioni speciali per gli utilizzatori</b>	Attenzione: Liquidi infiammabili
· <b>Numero Kemler:</b>	30
· <b>Numero EMS:</b>	F-E, <u>S-E</u>
· <b>14.7 Trasporto di rinfuse secondo l'allegato II di MARPOL 73/78 ed il codice IBC</b>	Non applicabile.
· <b>Trasporto/ulteriori indicazioni:</b>	
· <b>ADR</b>	
· <b>Quantità limitate (LQ)</b>	5L
· <b>Quantità esenti (EQ)</b>	Codice: E1 Quantità massima netta per imballaggio interno: 30 ml Quantità massima netta per imballaggio esterno: 1000 ml
· <b>Categoria di trasporto</b>	3
· <b>Codice di restrizione in galleria</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN1993, LIQUIDO INFIAMMABILE, N.A.S. (SUCCEDANEO DELL'ESSENZA DI TREMENTINA, Naphthenic acids, cobalt salts), PERICOLOSO PER L'AMBIENTE, 3, III

**SEZIONE 15: Informazioni sulla regolamentazione**· **15.1 Norme e legislazione su salute, sicurezza e ambiente specifiche per la sostanza o la miscela**· **Disposizioni nazionali:**· **Indicazioni relative alla limitazione delle attività lavorative:**

Il personale non deve essere esposto alle sostanze cancerogene contenute in questo preparato L'autorità può ammettere nei singoli casi delle eccezioni.

· **Istruzione tecnica aria:**

Classe	quota in %
NC	45,0

· **15.2 Valutazione della sicurezza chimica:** Una valutazione della sicurezza chimica non è stata effettuata.**SEZIONE 16: Altre informazioni**

I dati sono riportati sulla base delle nostre conoscenze attuali, non rappresentano tuttavia alcuna garanzia delle caratteristiche del prodotto e non motivano alcun rapporto giuridico contrattuale.

· **Frasei rilevanti**

H226 Liquido e vapori infiammabili.

H304 Può essere letale in caso di ingestione e di penetrazione nelle vie respiratorie.

H315 Provoca irritazione cutanea.

H317 Può provocare una reazione allergica cutanea.

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**Scheda di dati di sicurezza**  
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Stampato il: 28.05.2015

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(Segue da pagina 8)

*H319 Provoca grave irritazione oculare.*

*H334 Può provocare sintomi allergici o asmatici o difficoltà respiratorie se inalato.*

*H350 Può provocare il cancro.*

*H400 Molto tossico per gli organismi acquatici.*

*H410 Molto tossico per gli organismi acquatici con effetti di lunga durata.*

**· Abbreviazioni e acronimi:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*VOC: Volatile Organic Compounds (USA, EU)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*Flam. Liq. 3: Flammable liquids, Hazard Category 3*

*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*

*Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2*

*Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1*

*Skin Sens. 1: Sensitisation - Skin, Hazard Category 1*

*Carc. 1B: Carcinogenicity, Hazard Category 1B*

*Asp. Tox. 1: Aspiration hazard, Hazard Category 1*

*Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1*

*Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1*

IT

# 안전지침서

## 제31조의 1907/2006/EC에 따라

기압점: 2015.05.28

개정: 2015.05.28

### 1 화학제품과 회사에 관한 정보

- **제품 식별자**
- **제품명: COBALT NAPHTHENATE**
- **상품번호: 12500, 12501**
- **해당 순물질이나 혼합물의 관련 하위용도 및 사용금지용도** 추가적인 정보가 존재하지 않습니다.
- **제품의 권고 용도와 사용상의 제한:** 실험실 화학품
- **안전데이터표(Safety Data Sheet)내 공급업체 관련 상세 정보**
- **제조자/수입자/유통업자 정보:**  
 Electron Microscopy Sciences  
 1560 Industry Road  
 USA-Hatfield, PA 19440  
 Tel: 215-412-8400 Fax: 215-412-8450  
 email: sgkcck@aol.com  
 www.emsdiasum.com
- **Samchang Commercial Co., Ltd.**  
 Yeo Eui Do  
 PO Box 1110  
 Seoul, Korea  
 Tel: 82 2 703 3040  
 Fax: 82 2 717 3298
- **추가적인 정보 획득 가능:** Product safety department
- **비상연락 전화번호:**  
 ChemTrec 1-800-424-9300 Contract CCN7661  
 1-703-527-3887

### 2 유해성.위험성

· **순물질 또는 혼합물의 분류**



화염

인화성 액체 구분3                      H226 인화성 액체 및 증기



건강에 위험

호흡기과민성 구분1                      H334 흡입시 알레르기성 반응, 천식 또는 호흡 곤란을 일으킬 수 있음  
 발암성 구분1B                              H350 암을 일으킬 수 있음  
 흡인 유해성 구분1                        H304 삼켜서 기도로 유입되면 치명적일 수 있음



환경

수생환경유해성-급성 구분1 H400 수생생물에 매우 유독함  
 수생환경유해성-만성 구분1 H410 장기적인 영향에 의해 수생생물에게 매우 유독함



피부 부식성/자극성 구분2              H315 피부에 자극을 일으킴

(2 쪽에 계속)

# 안전지침서

## 제31조의 1907/2006/EC에 따라

기압점: 2015.05.28

개정: 2015.05.28

**제품명: COBALT NAPHTHENATE**

(1 쪽부터계속)

심한 눈 손상/자극성 구분2 H319 눈에 심한 자극을 일으킴  
 피부과민성 구분1 H317 알레르기성 피부 반응을 일으킬 수 있음

**· 라벨표기 요소**

**· GHS 라벨 요소**

본 제품은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

**· 그림문자**



GHS02 GHS08 GHS09

**· 신호어 위험**

**· 상표상에명확히위험성이표시된성분:**

Naphthenic acids, cobalt salts  
 Solvent naphtha (petroleum), medium aliph.

**· 유해.위험 문구**

인화성 액체 및 증기  
 피부에 자극을 일으킴  
 눈에 심한 자극을 일으킴  
 흡입시 알레르기성 반응, 천식 또는 호흡 곤란을 일으킬 수 있음  
 알레르기성 피부 반응을 일으킬 수 있음  
 압을 일으킬 수 있음  
 삼켜서 기도로 유입되면 치명적일 수 있음  
 장기적인 영향에 의해 수생생물에게 매우 유독함

**· 예방조치 문구**

삼켰을 시: 즉시 독성물질센터/병원 연락 필요.  
 피부(또는 머리카락)에 묻으면 오염된 모든 의복은 벗거나제거하십시오. 피부를 물로 씻으시오/샤워하십시오.  
 눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면콘택트렌즈를 제거하십시오. 계속 씻으시오.  
 (라벨 참조) 처치를 하시오.  
 잠금장치가 있는 저장장소에 저장하십시오.  
 현지/지역/국가/국제 규정에 따라서 내용물/용기 노출

**· 기타 유해성**

- PBT(잔류성, 생물농축성, 독성 물질) 및 vPvB(고 잔류성, 고 생물농축성 물질) 평가 결과
- PBT(잔류성, 생물농축성, 독성 물질): 해당사항 없음.
- vPvB(고 잔류성, 고 생물농축성 물질): 해당사항 없음.

### 3 구성성분의 명칭 및 함유량

**· 화학적 특성: 혼합물**

**· 설명:** 무해한 첨가물이 함유된 아래에 열거된 물질로 만들어진 혼합물.

**· 위험 요소:**

61789-51-3	Naphthenic acids, cobalt salts ⚠ 인화성 액체 구분3, H226; ⚠ 호흡기과민성 구분1, H334; 발암성 구분1B, H350; ⚠ 수생환경유해성-급성 구분1, H400; 수생환경유해성-만성 구분1, H410; ⚠ 피부 부식성/자극성 구분2, H315; 심한 눈 손상/자극성 구분2, H319; 피부과민성 구분1, H317	50-100%
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# 안전지침서

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**제품명: COBALT NAPHTHENATE**

64742-88-7	Solvent naphtha (petroleum), medium aliph.	(2 쪽부터계속)
인화성 액체	구분3, H226;  흡인 유해성	구분1, H304
		25-50%

### 4 응급조치 요령

- **응급조치요령 내용**
- **흡입했을 때:**  
 신선한 공기를 쐬고 나서 반드시 의 료진의 도움을 구한다.  
 환자가 의식을 잃었을 경우에는 안전한 자세에서 환자를 운반한다.
- **피부에 접촉했을 때:** 즉시물과비누로씻고잘헹군다.
- **눈에 들어갔을 때:** 흐르는 물에 눈을 몇분동안 씻어내고나서, 증상이 지속될 경우에는 의사와 상담한 다
- **먹었을 때:** 증상이 지 속될 경우에는 의사와 상 담 한 다.
- **가장 중요한 급·만성 증상 및 영향** 추가적인 정보가 존재하지 않습니다.
- **즉각적인 의료처치 및 특별치료가 필요함**을 시사하는 징후 추가적인 정보가 존재하지 않습니다.

### 5 폭발·화재시 대처방법

- **소화제**
- **적절한 소화제:** 이 산 화 탄 소, 모 래, 석 회 가 루를 사용하고, 물 을 사 용 하 지 않 는 다.
- **부적절한 소화제:** 플레트용 물
- **본 화학물질이나 혼합물에서 발생하는 특별 유해성** 추가적인 정보가 존재하지 않습니다.
- **소방관에 대한 권고사항**
- **화재 진압 시 착용할 보호구 및 예방조치:** 특 별 한 조 치 가 필요없음.

### 6 누출 사고 시 대처방법

- **개인적 예방조치, 보호장비 및 응급처치 절차** 안 전 장 비 착 용하고, 무 방 비 의 사 람 은 격 리 시 킨다.
- **환경 관련 예방조치:**  
 하천이나하수도로유입되었을경우해당관청에보고한다.  
 하수도망/해수면위의물/지하수로도달하지않게한다.
- **밀폐 및 정화 방법과 소재:**  
 액체가 혼합된 물질(모래, 규조토, 산성 결합 물, 일반 결합 물, 톱밥)에 흡입되도록 한다.  
 항목 13에 따라 오염된 물질을 쓰레기로 처분한다.  
 충분한 환기가 되도록 한다.  
 물 이 나 묽 은 세 척 제 로 씻 어 내 지 마 십 시 오
- **타 섹션 참조**  
 안 전 관 리 에 대 한 정보 는 제 7 장 을 참 고 하 시 오.  
 개 인 보 호 장 비 에 대 한 정보 는 제 8 장 을 참 고 하 시 오.  
 쓰 레 기 처 리 에 대 한 정보 는 제 13 장 을 참 고 하 시 오.

### 7 취급 및 저장방법

- **안전 취급을 위한 예방조치**  
 작업장에서는통풍이잘 되고/습기제거가잘 되게주의한다.  
 조심스럽게용기를 개봉하거나취급한다.  
 연무질이형성되는것을피한다.
- **화재 및 폭발 사고 예방대책에 관한 정보:**  
 발 화 요 소 는 멀 리 둔 다-금 연.  
 열로부터보호한다.  
 정 전 기 의 충 전 으로부터 보호한다.

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호흡보호장비를항상비치한다.

- **혼합위험성 등 안전 저장 조건**
- **보관:**
- **안전한 저장 방법:** 특 별 한 요구사항이 없음.
- **하나의 공동 보관 시설에 대한 보관 관련 정보:** 필 요없음
- **보 관 조 건 에 관 한 추 가 적 인 정 보:**  
 용기를새지않게밀폐한채보관한다.  
 열이나직사광선으로부터보호한다.
- **구체적 최종 사용자** 추가적인 정보가 존재하지 않습니다.

### 8 노출방지 및 개인보호구

- **침단시설 디자인에 대한 추가정보:** 더 이상 의 자료는 없음. 항 목 7 을 참고하시 오.
- **통제 변수**
- **화학물질의 노출기준, 생물학적 노출기준 등:**  
 본 제품에는 작업장에서 감시가 필요한 주요한 가치의 어떤 해당 재료의 양을 함유하고 있지 않다.
- **추 가 정 보:** 제 조 할 당 시 에 유 효 한 목 록 을 기 초 로 사 용 했 다.
- **노출 통제**
- **개인 보호구**
- **일반적보호조치및위생조치:**  
 식료 품, 음 료 수 와 사 료 로 부 터 멀 리 떨 어 뜨 려 놓 는 다.  
 더 러 워 지 거 나 음 료 수 가 물 은 옷 은 즉 시 탈 의 한 다.  
 휴 식 전 이 나 작 업 이 끝 날 때 마 다 손 을 씻 는 다.  
 방 호 복 은 따 로 보 관 한 다.  
 눈 과 피 부 와 의 접 촉 은 피 한 다.
- **호흡기 보호:**  
 단 시 간 또 는 경 미 한 오 염 의 경 우 에 는 호 흡 여 과 기 를 사 용 한 다. 심 각 한 또 는 장 기 간 노 출 시 에 는 호 흡 보 호 장 비 를 사 용 한 다.
- **손 보호:**



**보호용 장갑**

장갑재질은제품 / 원료 / 조제를투과시키지않아야하고, 내구성이있어야한다.  
 테스트를 하지 않았기 때문에 제품 / 조제 / 화학 혼합 물에 적합한 장갑재질에 대한 추천이 없다.  
 투과 시간, 침투율 과 저하를 고 려해 서 장 갑 재 료 를 선택한다.

- **장갑의재료**  
 적합한장갑의선정은재질차이뿐아니라품질기준의차이도고려하여이루어져야하고제조업종에따라서도다  
 르게선정되어야한다. 제품은다양한재료로부터의조제로이루어지는것이기때문에, 장갑재질의안정성은사  
 전에예측되어질수있는것이아니고, 반드시사용전에 (그안전성이) 체크되어야한다.
- **장 갑 재 료 의 투 과 시 간** 정확한관통시간은보호장갑제조자에의하여인지되고, 준수되어야한다.
- **눈 보호:**



**확조이는보안경**

KR

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### 9 물리화학적 특성

· 기본 물리 및 화학적 특성에 대한 정보	
· 일반정보	
· 외형	
· 물리적 상태:	액체의
· 색:	제 품 표 시 에 따름
· 냄새:	특색있는
· 후각역치	알맞지않다.
· pH:	알맞지않다.
· 상태변화	
· 녹는점/어는점:	맞지않는
· 초기 끓는점과 끓는점 범위:	220 °C
· 인화점:	40 °C
· 인화성(고체, 기체):	해당사항 없음.
· 점화온도:	265 °C
· 분해 온도:	알맞지않다.
· 자기점화:	이제품은자연발화성이없다.
· 폭발위험:	이제품은폭발위험성이없지만, 폭발가능성이있는증기화합물/공기화합물의형성가능성이있다.
· 인화 또는 폭발 범위의 상한/하한	
· 아래로:	0.6 Vol %
· 위로:	6.5 Vol %
· 증기압 의경우 20 °C:	6.6 hPa
· 밀도 의경우 20 °C:	0.9675 g/cm <sup>3</sup>
· 비중:	알맞지않다.
· 증기밀도:	알맞지않다.
· 증발 속도:	알맞지않다.
· 용해도:	
· 물:	각각의경우에따라서는거의혼합할수없는
· n 옥탄올/물 분배계수:	알맞지않다.
· 점도:	
· 역학성:	알맞지않다.
· 동점성:	알맞지않다.
· 용매내용물	
· 유기용매:	45.0 %
· VOC (EU)	45.00 %
· 고체의 함량:	65.0 %
· 기타 정보	추가적인 정보가 존재하지 않습니다.

### 10 안정성 및 반응성

- 반응성
- 화학적 안정성
- 화학적 안정성 및 유해 반응의 가능성 / 피해야 할 조건: 규정에따라사용할경우해체는없다

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- **유해반응 가능성** 위험한반응으로는알려지지않았다.
- **피해야 할 조건** 추가적인 정보가 존재하지 않습니다.
- **혼합 금지 물질:** 추가적인 정보가 존재하지 않습니다.
- **유해분해물질:** 위험성있는분해물들은알려지지않았다.

### 11 독성에 관한 정보

- **독성학적 영향에 대한 정보**
- **급성 독성:**

· **LD/LC50-수치에 따른 분류:**

**64742-88-7 Solvent naphtha (petroleum), medium aliph.**

구강의	LD50	>6500 mg/kg (rat)
피부의	LD50	>3000 mg/kg (rab)
흡입의	LC50/4 h	>14 mg/l (rat)

- **일차적 자극 효과:**
- **피부 부식성 또는 자극성:** 피부와점막을 자극한다.
- **심한 눈 손상 또는 자극성:** 자극
- **감각화:**  
호흡을통한감각화가가능성이있다.  
피부접촉을통하여감각화가가능성이있다.
- **추가적인 독성에 관한 정보:**  
이제품은유럽공동체의공동분류원칙의합법적인절차에근거하여최근에발효된원고에서아래위험들의사전 준비에대하여제시하고있다.  
건강에해로운  
자극적인  
암을유발하는
- **다음 종류의 잠재적인 효과에 대한 정보**
- **CMR-효과 (암 유발, 돌연변이성 그리고 생식 독성)**  
발암성 구분1B

### 12 환경에 미치는 영향

- **독성**
- **수생독성:** 추가적인 정보가 존재하지 않습니다.
- **지속성 및 분해성** 추가적인 정보가 존재하지 않습니다.
- **생물농축 잠재성** 추가적인 정보가 존재하지 않습니다.
- **토양내 이동성** 추가적인 정보가 존재하지 않습니다.
- **생태독성:**
- **의견:** 어류 에 매우 독성임
- **추가적인 생태학 정보:**
- **일반 특징:**  
수질오염등급 3 (자체등급분류): 심하게수질오염이된 지하수나, 하천으로또는하수도망에도달하지않게한다. 역시극소수의양이라도안된다. 지하수로아주미세한양이유입되었을경우엔이미식수오염상태이다 하천에서는역시물고기나플랑크톤게는독성이있다. 물속의유기체에아주독이되는것
- **PBT(잔류성, 생물농축성, 독성 물질) 및 vPvB(고 잔류성, 고 생물농축성 물질) 평가 결과**
- **PBT(잔류성, 생물농축성, 독성 물질):** 해당사항 없음.
- **vPvB(고 잔류성, 고 생물농축성 물질):** 해당사항 없음.

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· 기타 부작용 추가적인 정보가 존재하지 않습니다.

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### 13 폐기시 주의사항

- 폐기물 처리 방법
- 권고: 생활쓰레기와함께처리되어서는안된다. 하수도망으로유입되어서는안된다.
- 비위생적 포장:
- 권고: 당국의지침에입각한쓰레기처리.

### 14 운송에 필요한 정보

· 유엔 번호 · ADR, IMDG, IATA	UN1993
· UN 적정 선적명 · ADR  · IMDG  · IATA	1993 FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts), ENVIRONMENTALLY HAZARDOUS  FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts), MARINE POLLUTANT  FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts)
· 교통 위험 클래스 · ADR, IMDG  	3 발화성용액 3
· IATA  	3 발화성용액 3
· 용기등급 · ADR, IMDG, IATA	III
· 환경적 유해물질: · 해양오염물질: · 특수 마킹 (ADR):	이물질은환경과 오염물질을함유하고있다: Naphthenic acids, cobalt salts 네 심벌 (물고기와 나무) 심벌 (물고기와 나무)
· 이용자 특별 예방조치 · 위험 코드:	경고: 발화성용액 30

(8 쪽에계속)

# 안전지침서

## 제31조의 1907/2006/EC에 따라

기압점: 2015.05.28

개정: 2015.05.28

**제품명: COBALT NAPHTHENATE**

(7 쪽부터계속)

<b>· EMS-번호:</b>	F-E,S-E
<b>· MARPOL73/78(선박으로부터의 해양오염방지협약) 부속서2 및 IBC Code(국제선적화물코드)에 따른 벌크(bulk) 운송</b>	해당사항 없음.
<b>· 운 송/추 가 정 보:</b>	
<b>· ADR</b>	
<b>· 한정 수량 (LQ)</b>	5L
<b>· Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>· 운 송 구 분</b>	3
<b>· 터 널 제 한 코 드</b>	D/E
<b>· IMDG</b>	
<b>· Limited quantities (LQ)</b>	5L
<b>· Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>· UN "모 범 규 제":</b>	UN1993, FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts), ENVIRONMENTALLY HAZARDOUS, 3, III

### 15 법적 규제현황

· 해당 순물질 또는 혼합물에 대한 안전, 보건 및 환경 규제/법률

<b>· Korean Existing Chemical Inventory</b>		
61789-51-3	Naphthenic acids, cobalt salts	KE-06117
64742-88-7	Solvent naphtha (petroleum), medium aliph.	KE-31664

· **GHS 라벨 요소**

본 제품은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

· **위험 도표**



GHS02    GHS08    GHS09

· **표지어 위험**

· **상표상에명확히위험성이표시된성분:**

Naphthenic acids, cobalt salts  
Solvent naphtha (petroleum), medium aliph.

· **위험 문구**

인화성 액체 및 증기  
피부에 자극을 일으킴  
눈에 심한 자극을 일으킴  
흡입시 알레르기성 반응, 천식 또는 호흡 곤란을 일으킬 수 있음  
알레르기성 피부 반응을 일으킬 수 있음  
암을 일으킬 수 있음  
삼켜서 기도로 유입되면 치명적일 수 있음

(9 쪽에계속)

# 안전지침서

## 제31조의 1907/2006/EC에 따라

기압점: 2015.05.28

개정: 2015.05.28

**제품명: COBALT NAPHTHENATE**

(8 쪽부터계속)

장기적인 영향에 의해 수생생물에게 매우 유독함

**주의 문구**

- 삼켰을 시: 즉시 독성물질센터/병원 연락 필요.
- 피부(또는 머리카락)에 묻으면 오염된 모든 의복은 벗거나제거하십시오. 피부를 물로 씻으시오/샤워하십시오. 눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면콘택트렌즈를 제거하십시오. 계속 씻으시오.
- (라벨 참조) 처치를 하시오.
- 잠금장치가 있는 저장장소에 저장하십시오.
- 현지/지역/국가/국제 규정에 따라서 내용물/용기 노출

**· 국내규정:**

**· 사용제한에 대한 정보:**

노동자들은이러한예방준비하에암을유발시키는성분을함유한위험물을 버리지말아야한다. 개별적인경우에관청은예외를허가할수있다.

· **화학물질 안전성 평가:** 화학물질 안전성 평가가 수행되지 않음

### 16 그 밖의 참고사항

이보고는우리지식에대한오늘날의상태에대하여평가하고있다, 하지만이보고서는생산특성에관한보증은 기술하지않았으며계약적인법률관계에기반을두고있지도않다

- **최초 작성일자:** 2015.05.28
- **개정 횟수 및 최종 개정일자:** 1 / 2015.05.28
- **약어와 두문자어:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 인화성 액체 구분3: Flammable liquids, Hazard Category 3  
 피부 부식성/자극성 구분2: Skin corrosion/irritation, Hazard Category 2  
 심한 눈 손상/자극성 구분2: Serious eye damage/eye irritation, Hazard Category 2  
 호흡기과민성 구분1: Sensitisation - Respirat., Hazard Category 1  
 피부과민성 구분1: Sensitisation - Skin, Hazard Category 1  
 발암성 구분1B: Carcinogenicity, Hazard Category 1B  
 흡인 유해성 구분1: Aspiration hazard, Hazard Category 1  
 수생환경유해성-급성 구분1: Hazardous to the aquatic environment - AcuteHazard, Category 1  
 수생환경유해성-만성 구분1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 28.05.2015

Revisión: 28.05.2015

### SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

#### · 1.1 Identificador del producto

· **Nombre comercial:** COBALT NAPHTHENATE

· **Número del artículo:** 12500, 12501

#### · 1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados

No existen más datos relevantes disponibles.

· **Utilización del producto / de la elaboración** Sustancias químicas de laboratorio

#### · 1.3 Datos del proveedor de la ficha de datos de seguridad

##### · **Fabricante/distribuidor:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

##### Aname

C/ Perez Galdos no. 2

28693 Quijorna

Madrid, Spain

Tel: +34.91.816.89.50

Fax: +34.91.816.85.94

email: ventas@aname.es

· **Área de información:** Product safety department

#### · 1.4 Teléfono de emergencia:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SECCIÓN 2: Identificación de los peligros

#### · 2.1 Clasificación de la sustancia o de la mezcla

· **Clasificación con arreglo al Reglamento (CE) n° 1272/2008**



GHS02 llama

Flam. Liq. 3      H226 Líquidos y vapores inflamables.



GHS08 peligro para la salud

Resp. Sens. 1      H334 Puede provocar síntomas de alergia o asma o dificultades respiratorias en caso de inhalación.

Carc. 1B      H350 Puede provocar cáncer.

Asp. Tox. 1      H304 Puede ser mortal en caso de ingestión y penetración en las vías respiratorias.



GHS09 medio ambiente

Aquatic Acute 1      H400 Muy tóxico para los organismos acuáticos.

Aquatic Chronic 1      H410 Muy tóxico para los organismos acuáticos, con efectos nocivos duraderos.

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# Ficha de datos de seguridad

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Nombre comercial: **COBALT NAPHTHENATE**

( se continua en página 1 )



GHS07

Skin Irrit. 2      H315 Provoca irritación cutánea.  
 Eye Irrit. 2      H319 Provoca irritación ocular grave.  
 Skin Sens. 1      H317 Puede provocar una reacción alérgica en la piel.

### · 2.2 Elementos de la etiqueta

#### · Etiquetado con arreglo al Reglamento (CE) n° 1272/2008

El producto se ha clasificado y etiquetado de conformidad con el reglamento CLP.

#### · Pictogramas de peligro



GHS02    GHS08    GHS09

#### · Palabra de advertencia Peligro

#### · Componentes peligrosos a indicar en el etiquetaje:

Naphthenic acids, cobalt salts  
 nafta disolvente (petróleo), fracción alifática intermedia

#### · Indicaciones de peligro

H226 Líquidos y vapores inflamables.  
 H315 Provoca irritación cutánea.  
 H319 Provoca irritación ocular grave.  
 H334 Puede provocar síntomas de alergia o asma o dificultades respiratorias en caso de inhalación.  
 H317 Puede provocar una reacción alérgica en la piel.  
 H350 Puede provocar cáncer.  
 H304 Puede ser mortal en caso de ingestión y penetración en las vías respiratorias.  
 H410 Muy tóxico para los organismos acuáticos, con efectos nocivos duraderos.

#### · Consejos de prudencia

P301+P310      EN CASO DE INGESTIÓN: Llamar inmediatamente a un CENTRO DE TOXICOLOGÍA/  
 médico.  
 P303+P361+P353 EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitarse inmediatamente las prendas  
 contaminadas. Aclararse la piel con agua o ducharse.  
 P305+P351+P338 EN CASO DE CONTACTO CON LOS OJOS: Aclarar cuidadosamente con agua durante  
 varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando.  
 P321              Se necesita un tratamiento específico (ver en esta etiqueta).  
 P405              Guardar bajo llave.  
 P501              Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/  
 internacional.

### · 2.3 Otros peligros

#### · Resultados de la valoración PBT y mPmB

- **PBT:** No aplicable.
- **mPmB:** No aplicable.

## SECCIÓN 3: Composición/información sobre los componentes

### · 3.2 Caracterización química: Mezclas

· **Descripción:** Mezcla formada por las sustancias especificadas a continuación con adiciones no peligrosas.

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# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

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**Nombre comercial: COBALT NAPHTHENATE**

( se continua en página 2 )

**· Componentes peligrosos:**

CAS: 61789-51-3 EINECS: 263-064-0	Naphthenic acids, cobalt salts Flam. Liq. 3, H226; Resp. Sens. 1, H334; Carc. 1B, H350; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	50-100%
CAS: 64742-88-7 EINECS: 265-191-7	nafta disolvente (petróleo), fracción alifática intermedia Flam. Liq. 3, H226; Asp. Tox. 1, H304	25-50%

**SECCIÓN 4: Primeros auxilios****· 4.1 Descripción de los primeros auxilios****· En caso de inhalación del producto:**

Suministrar suficiente aire fresco y, para mayor seguridad, consultar el médico.

Las personas desmayadas deben tenderse y transportarse de lado con la suficiente estabilidad.

**· En caso de contacto con la piel: Lavar inmediatamente con agua y jabón y enjuagar bien.****· En caso de con los ojos:**

Limpia los ojos abiertos durante varios minutos con agua corriente. En caso de trastornos persistentes consultar un médico.

**· En caso de ingestión: Consultar un médico si los trastornos persisten.****· 4.2 Principales síntomas y efectos, agudos y retardados** No existen más datos relevantes disponibles.**· 4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente**  
No existen más datos relevantes disponibles.**SECCIÓN 5: Medidas de lucha contra incendios****· 5.1 Medios de extinción**

· **Sustancias extintoras apropiadas:** CO<sub>2</sub>, arena, polvo extintor. No utilizar agua.

· **Sustancias extintoras inapropiadas por razones de seguridad:** Agua a pleno chorro

**· 5.2 Peligros específicos derivados de la sustancia o la mezcla** No existen más datos relevantes disponibles.**· 5.3 Recomendaciones para el personal de lucha contra incendios**

· **Equipo especial de protección:** No se requieren medidas especiales.

**SECCIÓN 6: Medidas en caso de vertido accidental****· 6.1 Precauciones personales, equipo de protección y procedimientos de emergencia**

Llevar puesto equipo de protección. Mantener alejadas las personas sin protección.

**· 6.2 Precauciones relativas al medio ambiente:**

Al penetrar en las aguas o en el alcantarillado, avisar a las autoridades pertinentes.

Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.

**· 6.3 Métodos y material de contención y de limpieza:**

Quitar con material absorbente (arena, kieselgur, aglutinante de ácidos, aglutinante universal, aserrín).

Desechar el material contaminado como vertido según ítem 13.

Asegurar suficiente ventilación.

No enjuagar con agua ni productos de limpieza acuosos.

**· 6.4 Referencia a otras secciones**

Ver capítulo 7 para mayor información sobre una manipulación segura.

Ver capítulo 8 para mayor información sobre el equipo personal de protección.

Para mayor información sobre cómo desechar el producto, ver capítulo 13.

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( se continua en página 4 )

# Ficha de datos de seguridad

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### SECCIÓN 7: Manipulación y almacenamiento

- **7.1 Precauciones para una manipulación segura**  
Asegurar suficiente ventilación /aspiración en el puesto de trabajo.  
Abrir y manejar el recipiente con cuidado.  
Evitar la formación de aerosoles.
- **Prevención de incendios y explosiones:**  
Mantener alejadas las fuentes de encendido. No fumar.  
Proteger del calor.  
Tomar medidas contra las cargas electrostáticas.  
Tener preparados los aparatos respiratorios.
- **7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**
- **Almacenamiento:**
- **Exigencias con respecto al almacén y los recipientes:** No se requieren medidas especiales.
- **Normas en caso de un almacenamiento conjunto:** No es necesario.
- **Indicaciones adicionales sobre las condiciones de almacenamiento:**  
Mantener el recipiente cerrado herméticamente.  
Proteger del calor y de la luz directa del sol.
- **7.3 Usos específicos finales** No existen más datos relevantes disponibles.

### SECCIÓN 8: Controles de exposición/protección individual

- **Instrucciones adicionales para el acondicionamiento de instalaciones técnicas:**  
Sin datos adicionales, ver punto 7.
- **8.1 Parámetros de control**
- **Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:**  
El producto no contiene cantidades relevantes de sustancias con valores límite que exijan un control en el puesto de trabajo.
- **Indicaciones adicionales:** Como base se han utilizado las listas vigentes en el momento de la elaboración.
- **8.2 Controles de la exposición**
- **Equipo de protección individual:**
- **Medidas generales de protección e higiene:**  
Mantener alejado de alimentos, bebidas y alimentos para animales.  
Quitarse de inmediato la ropa ensuciada o impregnada.  
Lavarse las manos antes de las pausas y al final del trabajo.  
Guardar la ropa protectora por separado.  
Evitar el contacto con los ojos y la piel.
- **Protección respiratoria:**  
Si la exposición va a ser breve o de poca intensidad, colocarse una máscara respiratoria. Para una exposición más intensa o de mayor duración, usar un aparato de respiración autónomo.
- **Protección de manos:**



Guantes de protección

El material del guante deberá ser impermeable y resistente al producto / sustancia / preparado.  
Ante la ausencia de tests específicos, no se puede recomendar ningún material específico para guantes de protección contra el producto / preparado / mezcla de sustancias químicas.  
Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.

- **Material de los guantes**  
La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro. Teniendo en cuenta que el producto está fabricado a partir de

( se continua en página 5 )

# Ficha de datos de seguridad

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diferentes materiales, su calidad no puede ser evaluada de antemano, de modo que los guantes deberán ser controlados antes de su utilización.

· **Tiempo de penetración del material de los guantes**

El tiempo de resistencia a la penetración exacto deberá ser pedido al fabricante de los guantes. Este tiempo debe ser respetado.

· **Protección de ojos:**



Gafas de protección herméticas

### SECCIÓN 9: Propiedades físicas y químicas

· **9.1 Información sobre propiedades físicas y químicas básicas**

· **Datos generales**

· **Aspecto:**

· <b>Forma:</b>	Líquido
· <b>Color:</b>	Según denominación del producto
· <b>Olor:</b>	Característico
· <b>Umbral olfativo:</b>	No determinado.

· **valor pH:** No determinado.

· **Cambio de estado**

· <b>Punto de fusión /campo de fusión:</b>	Indeterminado.
· <b>Punto de ebullición /campo de ebullición:</b>	220 °C

· **Punto de inflamación:** 40 °C

· **Inflamabilidad (sólido, gaseiforme):** No aplicable.

· **Temperatura de ignición:** 265 °C

· **Temperatura de descomposición:** No determinado.

· **Autoinflamabilidad:** El producto no es autoinflamable.

· **Peligro de explosión:** El producto no es explosivo; sin embargo, pueden formarse mezclas explosivas de vapor / aire.

· **Límites de explosión:**

· <b>Inferior:</b>	0,6 Vol %
· <b>Superior:</b>	6,5 Vol %

· **Presión de vapor a 20 °C:** 6,6 hPa

· <b>Densidad a 20 °C:</b>	0,9675 g/cm <sup>3</sup>
· <b>Densidad relativa</b>	No determinado.
· <b>Densidad de vapor</b>	No determinado.
· <b>Velocidad de evaporación</b>	No determinado.

· **Solubilidad en / miscibilidad con agua:** Poco o no mezclable.

· **Coeficiente de reparto (n-octanol/agua):** No determinado.

· **Viscosidad:**

· <b>Dinámica:</b>	No determinado.
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( se continua en página 6 )

# Ficha de datos de seguridad

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Nombre comercial: COBALT NAPHTHENATE

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<b>Cinemática:</b>	No determinado.
<b>· Concentración del disolvente:</b>	
<b>Disolventes orgánicos:</b>	45,0 %
<b>VOC (CE)</b>	45,00 %
<b>Contenido de cuerpos sólidos:</b>	65,0 %
<b>· 9.2 Información adicional</b>	No existen más datos relevantes disponibles.

### SECCIÓN 10: Estabilidad y reactividad

- **10.1 Reactividad**
- **10.2 Estabilidad química**
- **Descomposición térmica / condiciones que deben evitarse:** No se descompone al emplearse adecuadamente.
- **10.3 Posibilidad de reacciones peligrosas** No se conocen reacciones peligrosas.
- **10.4 Condiciones que deben evitarse** No existen más datos relevantes disponibles.
- **10.5 Materiales incompatibles:** No existen más datos relevantes disponibles.
- **10.6 Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

### SECCIÓN 11: Información toxicológica

- **11.1 Información sobre los efectos toxicológicos**
- **Toxicidad aguda:**

- **Valores LD/LC50 (dosis letal /dosis letal = 50%) relevantes para la clasificación:**

**64742-88-7 nafta disolvente (petróleo), fracción alifática intermedia**

Oral	LD50	>6500 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalatorio	LC50/4 h	>14 mg/l (rat)

- **Efecto estimulante primario:**
- **en la piel:** Irrita la piel y las mucosas.
- **en el ojo:** Produce irritaciones.
- **Sensibilización:**
  - Posible sensibilización al aspirarse.
  - Posible sensibilización al entrar en contacto con la piel.
- **Indicaciones toxicológicas adicionales:**
  - En conformidad con el procedimiento de cálculo contenido en la última versión de la Normativa General de Clasificación de la CE para Preparados, el producto tiene los siguientes riesgos:
    - Nocivo
    - Irritante
    - Cancerígeno.
- **Efectos CMR (carcinogenicidad, mutagenicidad y toxicidad para la reproducción)**
  - Carc. 1B

### SECCIÓN 12: Información ecológica

- **12.1 Toxicidad**
- **Toxicidad acuática:** No existen más datos relevantes disponibles.
- **12.2 Persistencia y degradabilidad** No existen más datos relevantes disponibles.
- **12.3 Potencial de bioacumulación** No existen más datos relevantes disponibles.
- **12.4 Movilidad en el suelo** No existen más datos relevantes disponibles.

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# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 28.05.2015

Revisión: 28.05.2015

**Nombre comercial:** COBALT NAPHTHENATE

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· **Efectos ecotóxicos:**

· **Observación:** Muy tóxico para peces.

· **Indicaciones medioambientales adicionales:**

· **Indicaciones generales:**

Nivel de riesgo para el agua 3 (autoclasiificación): muy peligroso para el agua

No dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados, ni siquiera en pequeñas cantidades.

Una cantidad ínfima vertida en el subsuelo ya representa un peligro para el agua potable.

Vertido en aguas superficiales, también es tóxico para los peces y el plancton.

muy tóxico para organismos acuáticos

· **12.5 Resultados de la valoración PBT y mPmB**

· **PBT:** No aplicable.

· **mPmB:** No aplicable.

· **12.6 Otros efectos adversos** No existen más datos relevantes disponibles.

### SECCIÓN 13: Consideraciones relativas a la eliminación

· **13.1 Métodos para el tratamiento de residuos**

· **Recomendación:** No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.

· **Embalajes sin limpiar:**

· **Recomendación:** Eliminar conforme a las disposiciones oficiales.

### SECCIÓN 14: Información relativa al transporte

· **14.1 Número UN**

· **ADR, IMDG, IATA**

UN1993

· **14.2 Designación oficial de transporte de las Naciones Unidas**

· **ADR**

1993 LÍQUIDO INFLAMABLE, N.E.P. (SUCEDÁNEO DE TREMENTINA, Naphthenic acids, cobalt salts), PELIGROSO PARA EL MEDIO AMBIENTE

· **IMDG**

FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts), MARINE POLLUTANT

· **IATA**

FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Naphthenic acids, cobalt salts)

· **14.3 Clase(s) de peligro para el transporte**

· **ADR, IMDG**



· **Clase**

3 Líquidos inflamables

· **Etiqueta**

3

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## · IATA



· Class 3 Líquidos inflamables  
 · Label 3

· 14.4 Grupo de embalaje III  
 · ADR, IMDG, IATA

· 14.5 Peligros para el medio ambiente: El producto contiene materias peligrosas para el medio ambiente: Naphthenic acids, cobalt salts

· Contaminante marino: Sí  
 Símbolo (pez y árbol)

· Marcado especial (ADR): Símbolo (pez y árbol)

· 14.6 Precauciones particulares para los usuarios Atención: Líquidos inflamables  
 · Número Kemler: 30  
 · Número EMS: F-E,S-E

· 14.7 Transporte a granel con arreglo al anexo II del Convenio Marpol 73/78 y del Código IBC No aplicable.

## · Transporte/datos adicionales:

· ADR  
 · Cantidades limitadas (LQ) 5L  
 · Cantidades exceptuadas (EQ) Código: E1  
 Cantidad neta máxima por envase interior: 30 ml  
 Cantidad neta máxima por embalaje exterior: 1000 ml

· Categoría de transporte 3  
 · Código de restricción del túnel D/E

· IMDG  
 · Limited quantities (LQ) 5L  
 · Excepted quantities (EQ) Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml

· "Reglamentación Modelo" de la UNECE: UN1993, LÍQUIDO INFLAMABLE, N.E.P. (SUCEDÁNEO DE TREMENTINA, Naphthenic acids, cobalt salts), PELIGROSO PARA EL MEDIO AMBIENTE, 3, III

## SECCIÓN 15: Información reglamentaria

· 15.1 Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla

· Disposiciones nacionales:

· Indicaciones sobre las limitaciones de trabajo:

Los empleados no deben exponerse a las sustancias cancerígenas contenidas en el producto. En casos aislados las autoridades pueden hacer excepciones.

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· **15.2 Evaluación de la seguridad química:** Una evaluación de la seguridad química no se ha llevado a cabo.

### SECCIÓN 16: Otra información

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contractual.

· **Frases relevantes**

H226 Líquidos y vapores inflamables.

H304 Puede ser mortal en caso de ingestión y penetración en las vías respiratorias.

H315 Provoca irritación cutánea.

H317 Puede provocar una reacción alérgica en la piel.

H319 Provoca irritación ocular grave.

H334 Puede provocar síntomas de alergia o asma o dificultades respiratorias en caso de inhalación.

H350 Puede provocar cáncer.

H400 Muy tóxico para los organismos acuáticos.

H410 Muy tóxico para los organismos acuáticos, con efectos nocivos duraderos.

· **Abreviaturas y acrónimos:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 1B: Carcinogenicity, Hazard Category 1B

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1