

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 13.11.2025

Version number 308 (replaces version 307)

Revision: 13.11.2025

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

- **1.1 Product identifier** 600026
- **Trade name:** Concentrated drilling oil E-COLL
- **Article number:** 4317784015530, 4317784015547, 4317784348874
- **UFI:** TR10-90JY-W00A-2543
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
  - SU21 Consumer uses: Private households / general public / consumers
  - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Application of the substance / the mixture** Coolant/ Cutting solution
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
  - E/D/E - Einkaufsbuero Deutscher Eisenhaendler GmbH
  - EDE Platz 1
  - D-42389 Wuppertal
  - Germany

Tel. +49 202 6096-0  
e-mail: sdb@ede.de
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**
  - Poison Control Center Mainz - 24 hour emergency service – phone: +49 (0) 6131/19240

### \* SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
  - Eye Irrit. 2 H319 Causes serious eye irritation.
  - Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### · 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**



GHS07

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· **Signal word** Warning

· **Hazard statements**

H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P264 Wash hands thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.  
Contains biocidal products: pyridine-2-thiol 1-oxide, sodium salt, 1,2-benzisothiazol-3(2H)-one

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Determination of endocrine-disrupting properties** Not applicable.

### \* SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

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

· **Dangerous components:**

CAS: 64742-53-6 EINECS: 265-156-6 Index number: 649-466-00-2 Reg.nr.: 01-2119480375-34-xxxx	Distillates (petroleum), hydrotreated light naphthenic ⚠ Asp. Tox. 1, H304	50-100%
CAS: 68920-66-1 Reg.nr.: 01-2119489407-26	Fettalkohol, ethoxyliert ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315	2.5-10%
CAS: 64742-54-7 EINECS: 265-157-1 Index number: 649-467-00-8 Reg.nr.: 01-2119484627-25-0025	Distillates (petroleum), hydrotreated heavy paraffinic ⚠ Asp. Tox. 1, H304	<1.25%

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CAS: 157707-44-3 Polymer	Amides, C12-18 and C18-unsatd., N-(hydroxyethyl), ethoxylated Eye Dam. 1, H318	<1.25%
CAS: 3811-73-2 EINECS: 223-296-5 Index number: 613-344-00-7	pyridine-2-thiol 1-oxide, sodium salt STOT RE 1, H372 Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=1) Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 ATE: LD50 oral: 500 mg/kg LD50 dermal: 790 mg/kg LC50/4h inhalative: 0.5 ppm	<0.1%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6	1,2-benzisothiazol-3(2H)-one Acute Tox. 2, H330 Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317 ATE: LD50 oral: 450 mg/kg LC50/4h inhalative: 0.21 ppm Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.036 %	<0.1%

**Additional information:**

Contains biocidal active ingredients  
 For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures**
**General information:**

Personal protection for the First Aider.  
 Immediately remove any clothing soiled by the product.

**After inhalation:**

Supply fresh air.  
 Seek medical treatment in case of complaints.

**After skin contact:** If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Do not induce vomiting; call for medical help immediately.  
 No neutralisation attempts.

**4.2 Most important symptoms and effects, both acute and delayed** Gastric or intestinal disorders

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- **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>, powder or water spray. Fight larger fire with alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

#### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.
- **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** Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:**  
Protect from heat.  
Avoid open flames, sparks, other sources of ignition and direct sunlight.

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**· 7.2 Conditions for safe storage, including any incompatibilities**

Keep food, beverages and pet food away.

**· Storage:****· Requirements to be met by storerooms and receptacles:** Store in a cool location.**· Information about storage in one common storage facility:** Not required.**· Further information about storage conditions:**Keep container tightly sealed.  
Protect from contamination.**· 7.3 Specific end use(s)** No further relevant information available.**\* SECTION 8: Exposure controls/personal protection****· 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.

**· DNELs****CAS: 68920-66-1 Fettalkohol, ethoxyliert**

Dermal	DNEL (worker)	2,080 mg/kg bw/day (professional use)
Inhalative	Long term value for employees	294 mg/m <sup>3</sup> (professional use)

**CAS: 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic**

Inhalative	Long term value for employees	5.4 mg/m <sup>3</sup> (rat)
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**· Ingredients with biological limit values:****· Additional Occupational Exposure Limit Values for possible hazards during processing:**

DGUV Rule 109-003: When working with cooling lubricants, the employer must ensure that hazards due to skin and eye contact, emissions into the air breathed, hazards due to absorption into the body and fire and explosion hazards are eliminated or reduced to a minimum, insofar as this is possible using state-of-the-art technology.

this is possible according to the state of the art.

The following concentrations of cooling lubricants in the air in work areas are achievable according to the current state of the art in the industries and areas concerned. If concentrations fall below

If these concentrations are exceeded, it can be assumed that no further measures are necessary in accordance with the graduated concept (see DGUV 109-003 Section 6.3.3):

Water-mixed cooling lubricants in metalworking, glass and ceramics processing, water-miscible and water-mixed forming lubricants: 10 mg/m<sup>3</sup>**· Additional information:** The lists valid during the making were used as basis.**· 8.2 Exposure controls****· Appropriate engineering controls** No further data; see section 7.

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**· Individual protection measures, such as personal protective equipment****· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

**· Respiratory protection:**

Respiratory protection is not required when used properly and under normal conditions.

Filter P2

FFP 2

Respiratory protective devices - gas filters and combination devices according to DIN EN 141

**· Hand protection**

Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.

**· Material of gloves**

Nitrile rubber, NBR

Chloroprene rubber, CR

Penetration time (maximum wearing time) &gt; 480 min

The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use  
Recommended thickness of the material:  $\geq 0.4$  mm

**· Penetration time of glove material**

The exact breakthrough time can be obtained from the protective glove manufacturer and must be adhered to.

It should be noted that the daily usage time of a chemical protective glove in practice can be significantly shorter than the permeation time determined by tests due to the many influencing factors (e.g. temperature, humidity, etc.).

Due to the large variety of types of protective gloves, the manufacturer's instructions for use must be observed.

Additional note: The information is based on our own tests, literature references and information from glove manufacturers or is derived by analogy from similar substances. It should be noted that the daily usage time of a chemical protective glove in practice can be significantly shorter than the permeation time determined by tests due to the many influencing factors (e.g. temperature). Due to the large variety of types, the manufacturer's instructions for use must be observed.

**· Eye/face protection**

Tightly sealed goggles

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Recommendation: safety glasses with side protection shield

**· Body protection:**Protective work clothing  
Impervious protective clothing**· Environmental exposure controls**

Do not allow product to reach ground water, water course or sewage system.

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**SECTION 9: Physical and chemical properties**

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

- **Colour:** Dark orange colour
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** Undetermined.
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** Not applicable.
- **Decomposition temperature:** Not determined.
- **pH** >9 (5 - 10 %ige Emulsion)
- **Viscosity:**
- **Kinematic viscosity at 40 °C** 26 mm<sup>2</sup>/s
- **Kinematic: 23 °C - 4 mm (ISO 2431)**
- **Dynamic:** Not determined.
- **Solubility**
- **water:** Fully miscible.
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure at 20 °C:** 0.1 hPa
- **Density and/or relative density**
- **Density at 20 °C:** 0.89 g/cm<sup>3</sup>
- **Relative density** Not determined.
- **Vapour density** Not determined.

**· 9.2 Other information**

- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Solvent separation test:**
- **Organic solvents:** >0.5-<0.8 %
- **VOC (EC) %** 0.76 %  
0.00 %

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· VOC (EC) g/l	6.8 g/l
· Change in condition	6.8 g/l
· Drip point:	
· Oxidising properties	Not determined.
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

**\* SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** The product is stable when stored at normal ambient temperatures.
- **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** Temperatures above 60°C can lead to a reduced shelf life of the product.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****CAS: 64742-53-6 Distillates (petroleum), hydrotreated light naphthenic**

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rat)

**CAS: 68920-66-1 Fettalkohol, ethoxyliert**

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/6h	>100 mg/m <sup>3</sup> (rat)

**CAS: 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic**

Inhalative	LC50/4h	>100 mg/m <sup>3</sup> (Pimephales promelas)
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**CAS: 3811-73-2 pyridine-2-thiol 1-oxide, sodium salt**

Oral	LD50	500 mg/kg (ATE)
		500 mg/kg (rat)
Dermal	LD50	790 mg/kg (ATE)
		1,100 mg/kg (rat)
Inhalative	LC50/4h	0.5 ppm (ATE)
		1.5 ppm (rat)

**CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one**

Oral	LD50	450 mg/kg (ATE)
Inhalative	LC50/4h	0.21 ppm (ATE)

**Primary irritant effect:****Skin corrosion/irritation** May cause skin irritation with repeated contact.**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure** Based on available data, the classification criteria are not met.**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.

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**· 11.2 Information on other hazards****· Endocrine disrupting properties**

None of the ingredients is listed.

**\* SECTION 12: Ecological information****· 12.1 Toxicity****· Aquatic toxicity:****CAS: 64742-53-6 Distillates (petroleum), hydrotreated light naphthenic**

EC50 (21d)	>10 mg/L (Daphnia galeata)
EC50 (48h)	>10,000 mg/L (Daphnia galeata)
NOEC (21d)	10 mg/l (Daphnia galeata)

**CAS: 68920-66-1 Fettalkohol, ethoxyliert**

LC50 (96h)	108 mg/L (Brachydanio rerio)
EL50 akut (48h)	51 mg/l (Daphnia magna)
EL50 akut (72h)	>100 mg/l (Desmodesmus subspicatus)
NOEC (10d)	0.16 mg/l (Lepomis macrochirus)

**CAS: 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic**

LC50 (96h)	>100 mg/L (Pimephales promelas)
EC50 (21d)	>10 mg/L (Daphnia galeata)
EC50 (48h)	>10,000 mg/L (Daphnia galeata)
EC50/72h	>100 mg/l (Desmodesmus subspicatus)
EL50/48h	>100 mg/l (Pseudokirchneriella subcapitata)
	>10,000 mg/l (Daphnia magna)
NOEC (21d)	>10 mg/l (Daphnia galeata)

**· 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.**· 12.5 Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.**· 12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**· 12.7 Other adverse effects****· Additional ecological information:****· General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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Harmful to aquatic organisms

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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**SECTION 13: Disposal considerations**

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**· 13.1 Waste treatment methods:**

Containers can be recycled if completely empty; if not, dispose product/containers as dangerous waste. Observe local regulations.

-Uncleaned packaging:

Recommendation: Disposal according to official regulations

**· Waste disposal key:**

The mentioned waste codes are recommendations based on the expected use of this product. Due to the specific use and disposal conditions of the user, other waste codes may also be assigned under certain circumstances. (2014/955/EU)

12 01 09\*: halogen-free machining emulsions and solutions

**· European waste catalogue****· Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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**SECTION 14: Transport information**

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**· 14.1 UN number or ID number****· ADR, IMDG, IATA** Void**· 14.2 UN proper shipping name****· ADR, IMDG, IATA** Void**· 14.3 Transport hazard class(es)****· ADR, ADN, IMDG, IATA****· Class** Void**· 14.4 Packing group****· ADR, IMDG, IATA** Void**· 14.5 Environmental hazards:**

Not applicable.

**· 14.6 Special precautions for user**

Not applicable.

**· 14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

**· UN "Model Regulation":**

Void

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Labelling according to Regulation (EC) No 1272/2008**

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

**Hazard pictograms**

GHS07

**Signal word** Warning**Hazard statements**

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**REGULATION (EU) 2019/1148****Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**National regulations:****Verordnung (EU) Nr. 528/2012 - Verwendung von Biozidprodukten** applicable

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**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.  
Employment restrictions concerning pregnant and lactating women must be observed.

**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**

H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
H332 Harmful if inhaled.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

**Contact:** sdb@ede.de**Date of previous version:** 20.11.2023**Version number of previous version:** 307**Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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)  
DNEL: Derived No-Effect Level (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
ATE: Acute toxicity estimate values  
Acute Tox. 4: Acute toxicity – Category 4  
Acute Tox. 2: Acute toxicity – Category 2  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1A: Skin sensitisation – Category 1A  
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· \* **Data compared to the previous version altered.**

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