

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



Revision date: 12-Aug-2021

Revision Number: 1

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

1.1. Product identifier

Product Name: Kluthe Lösin 140
Article number: 061210330000
CAS No: -
EC No: 918-668-5
REACH registration number: 01-2119455851-35

Hazard components for labeling: Contains hydrocarbons, C9, aromats

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

Product categories [PC]: PC9 - Coatings and paints, fillers, putties, thinners
PC 0.56 - Solvent

1.3. Details of the supplier of the safety data sheet

Supplier: conti coatings GmbH
Feldstrasse 55
D - 46149 Oberhausen
Telefon: +49 208/ 9948-0
Telefax: +49 208/ 650625
www.conticoatings.com

E-mail address: sds.ob@kluthe.com

1.4. Emergency telephone number

Emergency Telephone: +49 177 / 214 4737 (24 h)

| | |
|--|--|
| Emergency Telephone - §45 - (EC)1272/2008 | |
| Europe | 112 |
| Austria | +43 1 406 43 43 (Giftinformationszentrale) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

| | |
|---|--------------------------|
| Flammable liquids | Category 3 - (H226) |
| Aspiration hazard | Category 1 - (H304) |
| Specific target organ toxicity (single exposure) | Category 3 - (H335,H336) |
| Chronic aquatic toxicity | Category 2 - (H411) |

2.2. Label elements

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Signal word: **Danger**

Hazard components for labeling:

Contains hydrocarbons, C9, aromats

Hazard statements:

- H226 - Flammable liquid and vapor.
- H304 - May be fatal if swallowed and enters airways.
- H335 - May cause respiratory irritation.
- H336 - May cause drowsiness or dizziness.
- H411 - Toxic to aquatic life with long lasting effects.

EU Specific Hazard Statements:

EUH066 - Repeated exposure may cause skin dryness or cracking.

Precautionary Statements - EU (§28, 1272/2008):

- P101 - If medical advice is needed, have product container or label at hand
- P102 - Keep out of reach of children
- P271 - Use only outdoors or in a well-ventilated area
- P273 - Avoid release to the environment
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
- P331 - Do NOT induce vomiting
- P391 - Collect spillage
- P405 - Store locked up
- P501 - Dispose of contents/ container to an approved waste disposal plant
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P370 + P378 - In case of fire: Use dry chemical, CO₂, water spray or alcohol-resistant foam to extinguish
- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Additional information

This product requires child resistant fastenings when supplied to the general public unless the product is placed on the market in the form of aerosols or in a container with a sealed spray attachment.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

organic solvents

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | CAS No | EC No | REACH registration | Classification | Weight-% |
|---------------|--------|-------|--------------------|----------------|----------|
|---------------|--------|-------|--------------------|----------------|----------|

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| | | | number | according to Regulation (EC) No. 1272/2008 [CLP] | |
|---------------------------|---|-----------|------------------|---|----------|
| hydrocarbons, C9, aromats | - | 918-668-5 | 01-2119455851-35 | Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H335) STOT SE 3 (H336) Aquatic Chronic 2 (H411) (EUH066) | 90 - 100 |

Acute Toxicity Estimate:

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---------------------------|-----------|-------------|---|---|--------------------------------------|
| hydrocarbons, C9, aromats | 3592 | 3200 | No data available | No data available | No data available |
| - | | | | | |

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|-------------------------------------|--|
| General advice: | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. |
| Inhalation: | Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed pulmonary edema may occur. |
| Eye contact: | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. |
| Skin contact: | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. |
| Ingestion: | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical advice/attention. |
| Self-protection of the first aider: | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. |

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4.2. Most important symptoms and effects, both acute and delayed

Symptoms: Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians: Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical: Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other information: Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders: Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions: Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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6.3. Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up: Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections: See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling



Advice on safe handling: Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment.

General hygiene considerations: Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials.

7.3. Specific end use(s)

Other information: No information available.

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

Exposure Limits:

| Chemical name | European Union | Germany | Netherlands | Spain | United Kingdom | Hungary |
|--------------------------------|----------------|--|-------------|-------|----------------|---------|
| hydrocarbons, C9, aromats - | | RCP: C9-14 aromates: STEL: 50 mg/m ³ - 2(II) | | | | |

Biological occupational exposure limits:

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL):

component information:

Worker - inhalative:

| Chemical name | long term, systemic | short term, systemic | long term, local | short term, local |
|---------------------------|-----------------------|----------------------|------------------|-------------------|
| hydrocarbons, C9, aromats | 150 mg/m ³ | | | |

Worker - dermal:

| Chemical name | long term, systemic | short term, systemic | long term, local | short term, local |
|---------------------------|---------------------|----------------------|------------------|-------------------|
| hydrocarbons, C9, aromats | 25 mg/kg bw/day | | | |

Consumer - inhalative:

| Chemical name | long term, systemic | short term, systemic | long term, local | short term, local |
|---------------------------|----------------------|----------------------|------------------|-------------------|
| hydrocarbons, C9, aromats | 32 mg/m ³ | | | |

Consumer - dermal:

| Chemical name | long term, systemic | short term, systemic | long term, local | short term, local |
|---------------------------|---------------------|----------------------|------------------|-------------------|
| hydrocarbons, C9, aromats | 11 mg/kg bw/day | | | |

consumer - oral:

| Chemical name | long term, systemic | short term, systemic | long term, local | short term, local |
|---------------------------|---------------------|----------------------|------------------|-------------------|
| hydrocarbons, C9, aromats | 11 mg/kg bw/day | | | |

Predicted No Effect Concentration (PNEC): No information available

8.2. Exposure controls

Engineering controls:

Showers, eyewash stations, and ventilation systems.

Personal protective equipment:

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Eye/face protection: Tight sealing safety goggles.

Hand protection: Wear suitable gloves. Impervious gloves.

| PPE - Glove material | Glove thickness | Break through time |
|----------------------|-----------------|--------------------|
| FKM (fluoro rubber) | 0.5 mm | >=480 min. |

Skin and body protection: Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Recommended Filter Type: Filtering device (full mask or mouthpiec AP-2

Environmental exposure controls: No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid

Color colorless

Odor characteristic

| | | | Conditions | Method | Remarks |
|-------------------------------|-----------|----|------------|--------|---------|
| Melting point / melting range | -30 | °C | | | |
| Boiling point / boiling range | 150 - 185 | °C | | | |

Flammability Not established

Decomposition temperature not relevant

Flash point 38 - 50 °C

Autoignition temperature 450 °C

Lower explosive limit 0.6 Vol%

Upper explosion limit 7 Vol%

Vapor pressure > 1100 hPa 50 °C

Density ~ 0.876 g/cm³ 20 °C

Water solubility Miscible

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| | | | | | |
|-----------------------------------|---|-------------------|--------------------|-------|-----------------|
| pH | | | | | Not applicable |
| pH (as aqueous solution) | | | | | Not established |
| Partition coefficient | | | | | Not established |
| Kinematic viscosity | < | 20.5 | mm ² /s | 40 °C | |
| Odor threshold | | | | | Not established |
| Relative density | | | | | Not established |
| Evaporation rate | | | | | Not established |
| Relative vapor density | | no data available | | | |
| Particle Size | | no data available | | | |
| Particle Size Distribution | | no data available | | | |

9.2. Other information

| | |
|-------------------------|--------------------------|
| Bulk density: | no data available |
| Softening point | No information available |
| Molecular weight | No information available |

9.2.1. Information with regard to physical hazard classes:

| | |
|----------------------|-------------------|
| Explosive properties | No data available |
| Oxidizing properties | No data available |

9.2.2. Other safety characteristics: No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: No information available.

10.2. Chemical stability

Stability: Stable under normal conditions.

Explosion data:

| | |
|-----------------------------------|-------|
| Sensitivity to mechanical impact: | None. |
| Sensitivity to static discharge: | Yes. |

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: None under normal processing.

10.4. Conditions to avoid

Conditions to avoid: Heat, flames and sparks.

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10.5. Incompatible materials

Incompatible materials: None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products: None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure:

Product Information:

Inhalation: Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May cause drowsiness or dizziness.

Eye contact: Specific test data for the substance or mixture is not available. May cause irritation.

Skin contact: Repeated exposure may cause skin dryness or cracking.

Ingestion: Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Numerical measures of toxicity:

Acute toxicity: No information available

| Chemical name | Parameter | Species | effektive Dosis | Method |
|---------------------------|-----------|---------|-----------------|----------|
| hydrocarbons, C9, aromats | Oral LD50 | Rat | 3592 mg/kg | OECD 401 |
| - | | | | |

| Chemical name | Parameters | Species | Effective dose | Method |
|---------------------------|-------------|---------|----------------|----------|
| hydrocarbons, C9, aromats | Dermal LD50 | Rabbit | > 3160 mg/kg | OECD 402 |
| - | | | | |

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin corrosion/irritation: No information available.

Serious eye damage/eye irritation: No information available.

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| | |
|------------------------------------|--|
| Respiratory or skin sensitization: | No information available. |
| Germ cell mutagenicity: | No information available. |
| Carcinogenicity: | No information available. |
| Reproductive toxicity: | No information available. |
| STOT - single exposure: | May cause respiratory irritation. May cause drowsiness or dizziness. |
| STOT - repeated exposure: | No information available. |
| Aspiration hazard: | May be fatal if swallowed and enters airways. |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No information available.

11.2.2. Other information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity: Toxic to aquatic life with long lasting effects.

fish toxicity:

| Chemical name | Parameter | Species | Effective dose | Exposure time | Method |
|--------------------------------|-----------|---------------------|----------------|---------------|--------|
| hydrocarbons, C9, aromats - | LC50 | Oncorhynchus mykiss | 9.22 mg/L | 96 h | |

toxicity to crustacea:

| Chemical name | Parameter | Species | Effective dose | Exposure time | Method |
|--------------------------------|-----------|---------------|----------------|---------------|--------|
| hydrocarbons, C9, aromats - | EC50 | Daphnia magna | 6.14 mg/L | 48 h | |

Algae Toxicity:

| Chemical name | Parameter | Species | Effective dose | Exposure time | Method |
|--------------------------------|-----------|---------------------------------|----------------|---------------|--------|
| hydrocarbons, C9, aromats - | EL50 | Pseudokirchneriella subcapitata | 2.6 - 2.9 mg/L | 72 h | |

12.2. Persistence and degradability

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Persistence and degradability:

| Chemical name | degradation rate | test duration | Rapidly biodegradable | Remarks | Method |
|--------------------------------|------------------|---------------|-----------------------|---------|--------|
| hydrocarbons, C9, aromats - | | | Yes | | |

12.3. Bioaccumulative potential

Bioaccumulation: No information available

12.4. Mobility in soil

Mobility in soil: No information available.

Mobility: No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment:

| Chemical name | PBT and vPvB assessment |
|--------------------------------|---------------------------------|
| hydrocarbons, C9, aromats - | The substance is not PBT / vPvB |

12.6. Endocrine disrupting properties.

No information available.

12.7. Other adverse effects.

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products: Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

Waste codes / waste designations according to EWC / AVV: 07 01 04* (other organic solvents, washing liquids and mother liquors)

SECTION 14: Transport information

14.1. UN number

ADR: UN1268

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RID: UN1268
IMDG: UN1268
IATA: UN1268

14.2 UN proper shipping name

ADR: PETROLEUM DISTILLATES, N.O.S.
UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III, Environmentally Hazardous

RID: PETROLEUM DISTILLATES, N.O.S.
UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III, Environmentally Hazardous

IMDG: PETROLEUM DISTILLATES, N.O.S.
UN1268, PETROLEUM DISTILLATES, N.O.S. (HYDROCARBONS, C9, AROMATS), 3, III, (38°C C.C.), MARINE POLLUTANT

IATA: PETROLEUM DISTILLATES, N.O.S.
UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III

14.3. Transport hazard class(es)

ADR: 3
Hazard label(s) 3
Classification code F1
Hazard identification number 30
(Kemler No.)
Tunnel restriction code (D/E)
Limited quantity (LQ) 5 L
ADR excepted quantity E1

RID: 3
Labels 3
Classification code F1

IMDG: 3
Hazard label(s) 3
Limited quantity (LQ) 5 L
IMDG Excepted Quantity E1
EmS-No F-E, S-E

IATA: 3
Hazard label(s) 3
IATA Excepted Quantity E1

14.4. Packing group

ADR: III
RID: III
IMDG: III
IATA: III

14.5. Environmental hazards

ADR: Yes
RID: Yes

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IMDG: Marine pollutant
IATA: Yes

14.6. Special precautions for user

ADR:
Special Provisions: 664
RID: Not regulated
IMDG:
Special Provisions: 223, 955
IATA:
Special Provisions: A3
ERG Code 3L

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available

SECTION 15: Regulatory information

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

European Union:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

- This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name | Substance subject to authorization per REACH Annex XIV | Restricted substance per REACH Annex XVII |
|---------------------------|--|---|
| hydrocarbons, C9, aromats | | 3. |
| - | | 28. |
| | | 29. |
| | | 40. |

Persistent Organic Pollutants: Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU):

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009: Not applicable

volatile organic compounds (VOC) content:

acc. reg. 2010/75/EG: 100 %

acc. reg. 2004/42/EG (Decopaint): 876 g/L

National regulations:

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Germany:

Water hazard class (WGK): obviously hazardous to water (WGK 2) - Classification according to AwSV

| Chemical name | WGK Classification (AwSV) | ID number |
|--------------------------------|---------------------------|-----------|
| hydrocarbons, C9, aromats - | 2 | - |

TA Luft (German Air Pollution Control Regulation):
org. substances (Ziffer 5.2.5): 95 - 100%

Storage class (TRGS 510): 3 • LGK3 - Flammable liquids

France:

Occupational Illnesses (R-463-3, France):

| Chemical name | French RG number |
|--------------------------------|------------------|
| hydrocarbons, C9, aromats - | RG 84 |

RG 84 - Occupational conditions caused by liquid organic solvents

Austria:

Flammable Liquids Regulations, VbF: Flammable liquids: All

Switzerland:

VOC content:: acc. VOCV CH 814.018, att. 1: 100 %

International Inventories:

| | |
|---------------|-----------------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Does not comply |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |

Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances

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15.2. Chemical safety assessment

Chemical Safety Report: No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet:

Full text of H-Statements referred to under section 3:

EUH066 - Repeated exposure may cause skin dryness or cracking

H226 - Flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H411 - Toxic to aquatic life with long lasting effects

Legend:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

ADR: European agreement concerning the international carriage of dangerous goods by road

(Accord européen relatif transport des marchandises dangereuses par route)

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany)

BCF: Bio-Concentration Factor

BOD(5): Biochemical oxygen demand (within 5 days)

CAS: Chemical Abstract Service

CLP: Classification, Labelling and Packaging

CMR: Carcinogenic, Mutagenic, toxic for Reproduction

DIN: German Standards Institute / German industrial norm

DNEL: Derived No Effect Level

DOC: Dissolved organic carbon

EAK/ AVV: European waste catalogue/ waste directory-regulation

EC50: Effective Concentration 50%

ECHA: European Chemical Agency

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

IATA: International Air Transport Association

IC50: Inhibition Concentration 50%

IMDG: International Maritime Dangerous Goods Code

LC50: Lethal Concentration 50% - LD50: Lethal dose 50%

MAK: Treshold limit values Germany

NLP: No Longer Polymers

NOAEC: No Observed Adverse Effect Concentration

NOAEL: No Observed Adverse Effect Level

OECD: Organization for Economic Cooperation and Development

PBT: persistent, bioaccumulative, toxic

PC: Product category

PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation and Authorization of Chemicals

RID: Regulations concerning the international carriage of dangerous goods by rail

(Règlement International concernant le transport de marchandises dangereuses par chemin de fer)

STEL: Short-term Exposure Limit

STP: Sewage treatment plant

SVHC: Substance of Very High Concern

TLV: Threshold Limit Value

SAFETY DATA SHEET

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TWA: Time Weighted Average
UN: United Nations
VOC: Volatile Organic Compounds
vPvB: very persistent, very bioaccumulative

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ceiling: Maximum limit value

* Skin designation

| Classification procedure | |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - vapor | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitization | Calculation method |
| Skin sensitization | Calculation method |
| Mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| Reproductive toxicity | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

Key literature references and sources for data used to compile the SDS:

European Chemicals Agency (ECHA)
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGl(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006:

Disclaimer:

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End of Safety Data Sheet