

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 7429 - Component B 7430

Revision date: 07.03.2024

Product code: 7429

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

1.1. Product identifier

Kisling - 7429 - Component B 7430

UFI: G422-E091-N00M-69GU

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

Use of the substance/mixture

Adhesives and sealants

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name: Kisling AG
Street: Motorenstrasse 102
Place: CH-8620 Wetzikon
Telephone: +41 58 272 0 272
E-mail: customerservice@kisling.com
Internet: www.kisling.com

Supplier

Company name: Kisling (Deutschland) GmbH
Street: Salzstraße 15
Place: D-74676 Niedernhall
Telephone: +49 7940 50961 61
E-mail: customerservice@kisling.com
Contact person: Dr. Hans Götz Telephone: +49 7940 5096 143
E-mail: compliance@kisling.com
Internet: www.kisling.com

1.4. Emergency telephone number:

24 hr. emergency phone number +1 872 5888271 (KAR)
Medicines & Poisons Info Office +356 2545 6508

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin Corr. 1A; H314
Eye Dam. 1; H318
Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine
3,3,5-trimethylhexylenediamine; 3,3,5-trimethyl hexamethylene-diamine
N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine
Amines, polyethylenepoly-, triethylenetetramine fraction

Signal word: Danger

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Pictograms:



Hazard statements

- H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.

Precautionary statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 Wash hands thoroughly after handling.
 P280 Wear protective gloves and eye/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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.
 P310 Immediately call a POISON CENTER/doctor.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances listed below with nonhazardous components.

Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|---|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 107-41-5 | 2-methylpentane-2,4-diol | | | 5 - < 15 % |
| | 203-489-0 | 603-053-00-3 | | |
| | Skin Irrit. 2, Eye Irrit. 2; H315 H319 | | | |
| 68082-29-1 | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | | | 5 - < 15 % |
| | 500-191-5 | | | |
| | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317 | | | |
| 25513-64-8 | 3,3,5-trimethylhexylenediamine; 3,3,5-trimethyl hexamethylene-diamine | | | 1 - < 5 % |
| | 247-063-2 | | 01-2119560598-25 | |
| | Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, Skin Sens. 1A; H302 H314 H318 H317 | | | |
| 10563-29-8 | N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine | | | 1 - < 5 % |
| | 234-148-4 | | 01-2119970376-29 | |
| | Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, Skin Sens. 1B; H302 H314 H318 H317 | | | |
| 104-15-4 | p-toluenesulphonic acid (containing a maximum of 5 % H ₂ SO ₄) | | | 1 - < 5 % |
| | 203-180-0 | 016-030-00-2 | | |
| | Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335 | | | |
| 90640-67-8 | Amines, polyethylenepoly-, triethylenetetramine fraction | | | 0.1 - < 1 % |
| | 292-588-2 | | 01-2119487919-13 | |
| | Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H312 H314 H318 H317 H412 | | | |

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|---|-------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 107-41-5 | 203-489-0 | 2-methylpentane-2,4-diol | 5 - < 15 % |
| | | dermal: LD50 = 8000 mg/kg; oral: LD50 = 3700 mg/kg | |
| 68082-29-1 | 500-191-5 | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | 5 - < 15 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg | |
| 25513-64-8 | 247-063-2 | 3,3,5-trimethylhexylenediamine; 3,3,5-trimethyl hexamethylene-diamine | 1 - < 5 % |
| | | oral: LD50 = 910 mg/kg Skin Corr. 1A; H314: >= 50 - 100 Skin Corr. 1B; H314: >= 5 - < 50 | |
| 10563-29-8 | 234-148-4 | N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine | 1 - < 5 % |
| | | oral: LD50 = 1669 mg/kg | |
| 104-15-4 | 203-180-0 | p-toluenesulphonic acid (containing a maximum of 5 % H2SO4) | 1 - < 5 % |
| | | oral: LD50 = 2480 mg/kg STOT SE 3; H335: >= 20 - 100 | |
| 90640-67-8 | 292-588-2 | Amines, polyethylenepoly-, triethylenetetramine fraction | 0.1 - < 1 % |
| | | dermal: LD50 = 1465.4 mg/kg; oral: LD50 = 1861.9 mg/kg | |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Get immediate medical advice/attention.

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

Treat symptomatically. No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

No information available.

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

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Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special handling advices are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

Further information on handling

Keep only in the original container in a cool, well-ventilated place.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

Hints on joint storage

none

Further information on storage conditions

Store in a cool dry place. Protect from direct sunlight.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

DNEL/DMEL values

| CAS No | Name of agent | Exposure route | Effect | Value |
|--------------------------|---|----------------|----------|-------------------------|
| 68082-29-1 | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | | | |
| Worker DNEL, long-term | | inhalation | systemic | 0,952 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 0,272 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 0,169 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 0,0972 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | systemic | 0,0972 mg/kg bw/day |
| 25513-64-8 | 3,3,5-trimethylhexylenediamine; 3,3,5-trimethyl hexamethylene-diamine | | | |
| Consumer DNEL, long-term | | oral | systemic | 0.05 mg/kg bw/day |
| 10563-29-8 | N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine | | | |
| Consumer DNEL, long-term | | inhalation | local | 0,65 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 0,67 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 0,65 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 0,2 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 3,7 mg/m ³ |
| Worker DNEL, acute | | inhalation | systemic | 7,5 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 3,7 mg/m ³ |
| Worker DNEL, acute | | inhalation | local | 7,5 mg/m ³ |
| 90640-67-8 | Amines, polyethylenepoly-, triethylenetetramine fraction | | | |
| Worker DNEL, long-term | | inhalation | systemic | 0.54 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | systemic | 0.096 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 0.14 mg/kg bw/day |

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PNEC values

| CAS No | Name of agent | | Value |
|--|---|--|---------------|
| Environmental compartment | | | |
| 68082-29-1 | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | | |
| Freshwater | | | 0,004 mg/l |
| Freshwater (intermittent releases) | | | 0,043 mg/l |
| Marine water | | | 0 mg/l |
| Freshwater sediment | | | 434,02 mg/kg |
| Marine sediment | | | 43,4 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | | 3,84 mg/l |
| Soil | | | 86,78 mg/kg |
| 25513-64-8 | 3,3,5-trimethylhexylenediamine; 3,3,5-trimethyl hexamethylene-diamine | | |
| Freshwater | | | 0.102 mg/l |
| Freshwater (intermittent releases) | | | 0.315 mg/l |
| Marine water | | | 0.01 mg/l |
| Freshwater sediment | | | 0.622 mg/kg |
| Marine sediment | | | 0.062 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | | 72 mg/l |
| Soil | | | 10 mg/kg |
| 10563-29-8 | N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine | | |
| Freshwater | | | 0,0092 mg/l |
| Freshwater (intermittent releases) | | | 0,092 mg/l |
| Marine water | | | 0,00092 mg/l |
| Freshwater sediment | | | 0,034 mg/kg |
| Marine sediment | | | 0,00336 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | | 18,1 mg/l |
| Soil | | | 0,00132 mg/kg |
| 90640-67-8 | Amines, polyethylenepoly-, triethylenetetramine fraction | | |
| Freshwater | | | 0.027 mg/l |
| Freshwater (intermittent releases) | | | 0.2 mg/l |
| Marine water | | | 0.003 mg/l |
| Freshwater sediment | | | 8.572 mg/kg |
| Marine sediment | | | 0.857 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | | 0.13 mg/l |
| Soil | | | 1.25 mg/kg |

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

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Eye/face protection

Suitable eye protection: goggles.

Hand protection

Hand protection EN ISO 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Tested protective gloves must be worn.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing. The type of personal protection equipment has to be chosen based on the concentration and amount of the dangerous substance at the workplace.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|---|----------------|------------------------|
| Physical state: | Paste, solid | |
| Colour: | black | |
| Odour: | characteristic | |
| Odour threshold: | not determined | |
| Melting point/freezing point: | | not determined |
| Boiling point or initial boiling point and boiling range: | | >200 °C |
| Flammability: | | not applicable |
| Lower explosion limits: | | not determined |
| Upper explosion limits: | | not determined |
| Flash point: | | 85 °C |
| Auto-ignition temperature: | | not determined |
| Decomposition temperature: | | not determined |
| pH-Value: | | not determined |
| Viscosity / kinematic: | | not determined |
| Water solubility: | | practically insoluble |
| Solubility in other solvents | | |
| not determined | | |
| Partition coefficient n-octanol/water: | | not determined |
| Vapour pressure: | | not determined |
| Density (at 20 °C): | | 1.24 g/cm ³ |
| Relative density: | | not determined |
| Relative vapour density: | | not determined |

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

not determined

Other safety characteristics

Evaporation rate:

not determined

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Solid content:

not determined

Viscosity / dynamic:
(at 25 °C)

30000 mPa·s

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

The product is chemically stable under recommended conditions of storage, use and temperature.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No further relevant information available.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) 12698 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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| CAS No | Chemical name | | | | |
|------------|---|-------------------|---------|---------------------|--|
| | Exposure route | Dose | Species | Source | Method |
| 107-41-5 | 2-methylpentane-2,4-diol | | | | |
| | oral | LD50 3700 mg/kg | Rat | | |
| | dermal | LD50 8000 mg/kg | Rabbit | | |
| 68082-29-1 | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | Study report (2012) | OECD Guideline 423 |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (2013) | OECD Guideline 402 |
| 25513-64-8 | 3,3,5-trimethylhexylenediamine; 3,3,5-trimethyl hexamethylene-diamine | | | | |
| | oral | LD50 910 mg/kg | Rat | Study report (1965) | other: comparable to guideline study wit |
| 10563-29-8 | N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine | | | | |
| | oral | LD50 1669 mg/kg | Rat | Study report (1991) | OECD Guideline 401 |
| 104-15-4 | p-toluenesulphonic acid (containing a maximum of 5 % H2SO4) | | | | |
| | oral | LD50 2480 mg/kg | Rat | GESTIS | |
| 90640-67-8 | Amines, polyethylenepoly-, triethylenetetramine fraction | | | | |
| | oral | LD50 1861.9 mg/kg | Rat | Study report (1992) | other: EPA FR Vol.50, No. 188, September |
| | dermal | LD50 1465.4 mg/kg | Rabbit | Study report (1993) | OECD Guideline 402 |

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine; 3,3,5-trimethylhexylenediamine; 3,3,5-trimethyl hexamethylene-diamine; N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine; Amines, polyethylenepoly-, triethylenetetramine fraction)

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

May be harmful if swallowed, in contact with skin or if inhaled.

11.2. Information on other hazards

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Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

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| CAS No | Chemical name | | | | | |
|------------|---|----------------|-----------|---------|---|--|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 107-41-5 | 2-methylpentane-2,4-diol | | | | | |
| | Acute fish toxicity | LC50 mg/l | 8510 | 96 h | Gambusia affinis | |
| | Acute crustacea toxicity | EC50 mg/l | 3200 | 48 h | Daphnia magna | |
| 68082-29-1 | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | | | | | |
| | Acute fish toxicity | LC50 mg/l | 7,07 | 96 h | Danio rerio | Study report (2013) OECD Guideline 203 |
| | Acute algae toxicity | ErC50 mg/l | 4,34 | 72 h | Raphidocelis subcapitata | Study report (2013) OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l | 7,07 | 48 h | | Pre-supplier/manu facturer |
| | Acute bacteria toxicity | (EC50 mg/l) | 384 | 3 h | activated sludge of a predominantly domestic sewage | Study report (2012) OECD Guideline 209 |
| 25513-64-8 | 3,3,5-trimethylhexylenediamine; 3,3,5-trimethyl hexamethylene-diamine | | | | | |
| | Acute algae toxicity | ErC50 mg/l | 43.5 | 72 h | Raphidocelis subcapitata | REACH Registration Dossier OECD Guideline 201 |
| | Fish toxicity | NOEC mg/l | >= 10.9 | 30 d | Danio rerio | REACH Registration Dossier OECD Guideline 210 |
| | Crustacea toxicity | NOEC mg/l | 1.02 | 21 d | Daphnia magna | REACH Registration Dossier OECD Guideline 211 |
| 10563-29-8 | N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine | | | | | |
| | Acute fish toxicity | LC50 mg/l | > 100 | 96 h | Danio rerio | Study report (2009) OECD Guideline 203 |
| | Acute algae toxicity | ErC50 | 21 mg/l | 72 h | Raphidocelis subcapitata | Study report (2004) OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l | 9,22 | 48 h | Daphnia magna | Study report (1992) ISO 6341 |
| 90640-67-8 | Amines, polyethylenepoly-, triethylenetetramine fraction | | | | | |
| | Acute fish toxicity | LC50 | 330 mg/l | 96 h | Pimephales promelas | REACH Registration Dossier other: U.S EPA- TSCA, 40 CFR Part 797 14 |
| | Acute algae toxicity | ErC50 | 20 mg/l | 72 h | Raphidocelis subcapitata | REACH Registration Dossier OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l | 31.1 | 48 h | Daphnia magna | REACH Registration Dossier EU Method C.2 |
| | Acute bacteria toxicity | (EC50 mg/l) | 800 | | activated sludge, domestic | REACH Registration Dossier other: EEC L133 1988 p 118-122 |

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

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Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|---|---------|
| 107-41-5 | 2-methylpentane-2,4-diol | 0,58 |
| 68082-29-1 | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | 10,34 |
| 25513-64-8 | 3,3,5-trimethylhexylenediamine; 3,3,5-trimethyl hexamethylene-diamine | -0.3 |
| 10563-29-8 | N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine | -0,56 |
| 104-15-4 | p-toluenesulphonic acid (containing a maximum of 5 % H2SO4) | 0,93 |
| 90640-67-8 | Amines, polyethylenepoly-, triethylenetetramine fraction | -2.9 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|------------|---|------|---------|--------|
| 68082-29-1 | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | 77,4 | no data | (2013) |

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

List of Wastes Code - used product

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

List of Wastes Code - contaminated packaging

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

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SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 3259
14.2. UN proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8



Classification code: C8
Special Provisions: 274
Limited quantity: 1 kg
Excepted quantity: E2
Transport category: 2
Hazard No: 80
Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3259
14.2. UN proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8



Classification code: C8
Special Provisions: 274
Limited quantity: 1 kg
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 3259
14.2. UN proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8



Special Provisions: 274
Limited quantity: 1 kg
Excepted quantity: E2
EmS: F-A, S-B
Segregation group: 18 - alkalis

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3259

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14.2. UN proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine)

14.3. Transport hazard class(es): 8

14.4. Packing group: II

Hazard label: 8



Special Provisions: A3 A803

Limited quantity Passenger: 5 kg

Passenger LQ: Y844

Excepted quantity: E2

IATA-packing instructions - Passenger: 859

IATA-max. quantity - Passenger: 15 kg

IATA-packing instructions - Cargo: 863

IATA-max. quantity - Cargo: 50 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 3 - highly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

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Abbreviations and acronyms

CLP: Classification, labelling and Packaging
 REACH: Registration, Evaluation and Authorization of Chemicals
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
 UN: United Nations
 CAS: Chemical Abstracts Service
 DNEL: Derived No Effect Level
 DMEL: Derived Minimal Effect Level
 PNEC: Predicted No Effect Concentration
 ATE: Acute toxicity estimate
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%
 LL50: Lethal loading, 50%
 EL50: Effect loading, 50%
 EC50: Effective Concentration 50%
 ErC50: Effective Concentration 50%, growth rate
 NOEC: No Observed Effect Concentration
 BCF: Bio-concentration factor
 PBT: persistent, bioaccumulative, toxic
 vPvB: very persistent, very bioaccumulative
 ADR: Accord européen sur le transport des marchandises dangereuses par Route
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Regulations concerning the international carriage of dangerous goods by rail
 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)
 IMDG: International Maritime Code for Dangerous Goods
 EmS: Emergency Schedules
 MFAG: Medical First Aid Guide
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships
 IBC: Intermediate Bulk Container
 VOC: Volatile Organic Compounds
 SVHC: Substance of Very High Concern
 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
 Acute Tox: Acute toxicity
 Skin Corr: Skin corrosion
 Skin Irrit: Skin irritation
 Eye Dam: Eye damage
 Eye Irrit: Eye irritation
 Skin Sens: Skin sensitisation
 STOT SE: Specific target organ toxicity - single exposure
 Aquatic Chronic: Chronic aquatic hazard

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification | Classification procedure |
|---------------------|--------------------------|
| Skin Corr. 1A; H314 | Calculation method |
| Eye Dam. 1; H318 | Calculation method |
| Skin Sens. 1; H317 | Calculation method |

Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.

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| | |
|------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Identified uses

| No | Short title | LCS | SU | PC | PROC | ERC | AC | TF | Specification |
|----|------------------------|-------|--------------------|----|--------|---------------|---------------------------------------|-----|---------------|
| 1 | Adhesives and sealants | PW, C | 6a, 6b, 12, 18, 19 | 1 | 11, 19 | 4, 8a, 8c, 8d | 4e, 4g, 5c, 6g, 7c, 7g, 8, 10, 11, 13 | 110 | K+D |

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)