



smartDrill

Safety Data Sheet

This safety data sheet is for informational purposes only and does not fully comply with national legal requirements. The national distributor is responsible for a legally compliant safety data sheet.
Issue date: 10/28/2022 Revision date: 10/28/2022 Version: 1.00

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

1.1. Product identifier

Product form : Mixture
Trade name : smartDrill
Article number : REF 123299, 123300

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Medical device
disinfectants

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Alfred Becht GmbH
Carl-Zeiss-Str. 16
P.O. Box 1145
77656 Offenburg
T +49 781 60586-0 - F +49 781 60586-40

Email competent person

sds@kft.de

1.4. Emergency telephone number

Emergency number : National Poison Information Service (NPIS)
24 hour national number professionals only
0844 892 0111

National Health Service (NHS)
24 hour national number consumer
England and Scotland: 111
Wales: 0845 46 47
Northern Ireland: call your local General Practitioner

Call 999 if there is a life-threatening incident.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : -
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP) : P273 - Avoid release to the environment.
EUH-statements : EUH208 - Contains DIETHYLENETRIAMINE. May produce an allergic reaction.

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2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

| Component | |
|--|---|
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides (68391-01-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 2,2'-iminodiethylamine (111-40-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Tridecylamine, branched and linear (86089-17-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|---------------------|--|
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | CAS-No.: 68391-01-5 EC-No.: 269-919-4 | $\geq 0.1 - < 0.25$ | Acute Tox. 4 (Oral), H302 (ATE=344 mg/kg bodyweight) Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |
| 2,2'-iminodiethylamine | CAS-No.: 111-40-0 EC-No.: 203-865-4 EC Index-No.: 612-058-00-X | $\geq 0.1 - < 0.25$ | Acute Tox. 4 (Oral), H302 (ATE=1553 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1045 mg/kg bodyweight) Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.05 mg/l/4h) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine substance with national workplace exposure limit(s) (DE) | CAS-No.: 2372-82-9 EC-No.: 219-145-8 | $\geq 0.1 - < 0.25$ | Acute Tox. 3 (Oral), H301 (ATE=261 mg/kg bodyweight) Skin Corr. 1B, H314 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------------------------------|--|-------|--|
| Tridecylamine, branched and linear | CAS-No.: 86089-17-0 EC-No.: 289-185-9 | < 0.1 | Acute Tox. 4 (Oral), H302 (ATE=820 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : In all cases of doubt, or when symptoms persist, seek medical attention. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Rinse mouth out with water. Drink plenty of water. Do not give an unconscious person anything to drink. Call a poison center or a doctor if you feel unwell. |

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

| | |
|-------------------------------------|--|
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
|-------------------------------------|--|

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : None. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|---|
| Fire hazard | : Non flammable. |
| Explosion hazard | : Product is not explosive. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Hydrogen chloride. Carbon dioxide. Carbon monoxide. Nitrogen oxides. |

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| Other information | : Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|----------------------------|
| Emergency procedures | : Ventilate spillage area. |
|----------------------|----------------------------|

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6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Notify authorities if product enters sewers or public waters. Avoid sub-soil penetration. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
Other information : Disposal must be done according to official regulations.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Product must only be kept in the original packaging. Store in a well-ventilated place. Keep cool.
Heat and ignition sources : Keep away from heat and direct sunlight.
Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs.
Storage area : Keep out of frost.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9) | |
|--|--|
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 0.05 mg/m ³ (E) |
| Peak exposure limitation factor | 8(II) |
| Remark | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden |
| Regulatory reference | TRGS900 |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

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8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Use splash goggles when eye contact due to splashing is possible. EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. EN 340. EN 13034

Hand protection:

In case of repeated or prolonged contact wear gloves. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

| Hand protection | | | | | |
|--|----------------|-------------------|----------------|-------------|------------|
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Chemically resistant protective gloves | Nitrile rubber | 6 (> 480 minutes) | ≥ 0,5 | 3 (> 0.65) | EN ISO 374 |

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. EN 143. Short term exposure. Breathing apparatus with filter. P2. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Always wash hands after handling the product. Apply emollient cream.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|------------------|
| Physical state | : Liquid |
| Colour | : colourless. |
| Odour | : perfumed. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : > 100 °C |
| Flammability | : Not applicable |

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|---|------------------------------|
| Explosive properties | : Product is not explosive. |
| Oxidising properties | : Non oxidizing. |
| Explosive limits | : Not applicable |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : Not applicable |
| Auto-ignition temperature | : Not self-igniting |
| Decomposition temperature | : Not available |
| pH | : 10.2 – 10.8 |
| Viscosity, kinematic | : Not relevant (Water) |
| Viscosity, dynamic | : Not relevant (Water) |
| Solubility | : Water: completely miscible |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Partition coefficient n-octanol/water (Log Pow) | : Not applicable |
| Vapour pressure | : ≈ 10 kPa |
| Vapour pressure at 50°C | : Not available |
| Density | : Not available |
| Relative density | : 1 – 1.01 |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

| | |
|--|------------------------|
| Relative evaporation rate (butylacetate=1) | : Not relevant (Water) |
| VOC content | : 0.19 % |

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

| | |
|-----------------------------|---|
| Acute toxicity (oral) | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal) | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

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|--|--|
| ATE CLP (oral) | > 10000 mg/kg bodyweight |
| ATE CLP (dust,mist) | > 10 mg/l/4h |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9) | |
| LD50 oral rat | 261 mg/kg (OECD 401 method) |
| LD50 dermal rat | > 2000 mg/kg |
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides (68391-01-5) | |
| LD50 oral rat | 344 mg/kg |
| LD50 dermal rabbit | 3340 mg/kg |
| 2,2'-iminodiethylamine (111-40-0) | |
| LD50 oral rat | 1553 mg/kg (male) |
| LD50 dermal rabbit | 1045 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | > 0.07 mg/l/4h (OECD 403 method) |
| Tridecylamine, branched and linear (86089-17-0) | |
| LD50 oral rat | 820 mg/kg (female) |
| Skin corrosion/irritation | : Not classified (Based on available data, the classification criteria are not met) pH: 10.2 – 10.8 |
| Serious eye damage/irritation | : Not classified (Based on available data, the classification criteria are not met) pH: 10.2 – 10.8 |
| Respiratory or skin sensitisation | : Not classified |
| Additional information | : May cause sensitisation of susceptible persons |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met) |
| 2,2'-iminodiethylamine (111-40-0) | |
| STOT-single exposure | May cause respiratory irritation. |
| Tridecylamine, branched and linear (86089-17-0) | |
| STOT-single exposure | May cause respiratory irritation. |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9) | |
| STOT-repeated exposure | May cause damage to organs (kidneys) through prolonged or repeated exposure. |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) |
| smartDrill | |
| Viscosity, kinematic | Not relevant (Water) |

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

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Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9) | |
|---|---|
| LC50 - Fish [1] | 0.431 mg/l (96 h; Danio rerio; (OECD 203 method)) |
| EC50 - Crustacea [1] | 0.078 mg/l (48h; Daphnia magna; (OECD 202 method)) |
| ErC50 algae | 0.015 mg/l (72 h; Pseudokirchneriella subcapitata; (OECD 201 method)) |
| NOEC chronic crustacea | 0.024 mg/l (21 d; Daphnia magna; (OECD 211 method)) |
| NOEC chronic algae | 0.009 mg/l (72 h; Desmodesmus subspicatus; (OECD 201 method)) |
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides (68391-01-5) | |
| LC50 - Fish [1] | 0.28 mg/l (96h; Oncorhynchus mykiss) |
| EC50 - Crustacea [1] | 0.016 mg/l (48 h; Daphnia magna; (OECD 202 method)) |
| ErC50 algae | 0.049 mg/l (72 h; Pseudokirchneriella subcapitata; (OECD 201 method)) |
| NOEC chronic crustacea | 0.0042 mg/l (21 d; Daphnia magna) |
| 2,2'-iminodiethylamine | |
| NOEC chronic fish | > 10 mg/l (28 d; Gasterosteus aculeatus; (OECD 210 method)) |
| NOEC chronic algae | 10 mg/l (72 h; Pseudokirchnerella subcapitata; (OECD 201 method)) |
| Tridecylamine, branched and linear (86089-17-0) | |
| LC50 - Fish [1] | 0.065 mg/l (96h; Leuciscus idus) |
| EC50 - Crustacea [1] | 0.015 mg/l (48h; Daphnia magna; Read-across) |
| ErC50 algae | 0.2 mg/l (96 h; Dunaliella parva; Read-across) |

12.2. Persistence and degradability

| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9) | |
|---|-----------------------------------|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 79 % (28 d; (OECD 301D method)) |
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides (68391-01-5) | |
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 95.5 % (28 d; (OECD 301B method)) |
| 2,2'-iminodiethylamine (111-40-0) | |
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 87 % (21 d; (OECD 301D method)) |
| Tridecylamine, branched and linear (86089-17-0) | |
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | < 10 % (56 d; (OECD 301B method)) |

12.3. Bioaccumulative potential

| smartDrill | |
|---|----------------|
| Partition coefficient n-octanol/water (Log Pow) | Not applicable |

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| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 0.34 (20 °C; Quantitative structure-activity relationship (QSAR)) |
| 2,2'-iminodiethylamine (111-40-0) | |
| BCF - Fish [1] | 2.8 – 6.3 (0,2 mg/L; Cyprinus carpio; (OECD 305 method)) |
| Partition coefficient n-octanol/water (Log Pow) | -5.58 (20 °C; pH 7; (calculated value)) |

12.4. Mobility in soil

| 2,2'-iminodiethylamine (111-40-0) | |
|--|-------------------------------------|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.4 – 4.6 (25 °C; EPA OTS 796.2750) |

12.5. Results of PBT and vPvB assessment

| smartDrill | |
|--|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII | |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII | |

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|--|
| Waste treatment methods | : Disposal must be done according to official regulations. European waste catalogue. Do not dispose of with domestic waste. Do not discharge into drains or the environment. |
| Sewage disposal recommendations | : Do not allow into drains or water courses. |
| Product/Packaging disposal recommendations | : Recycle or dispose of in compliance with current legislation. |
| European List of Waste (LoW) code | : 07 06 01* - aqueous washing liquids and mother liquors |
| HP Code | : HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment |

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|---------------|---------------|---------------|---------------|
| 14.1. UN number or ID number | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.2. UN proper shipping name | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4. Packing group | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |

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| ADR | IMDG | IATA | ADN | RID |
|--|---------------|---------------|---------------|---------------|
| 14.5. Environmental hazards | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | |
|--|--|
| Reference code | Applicable on |
| 3(b) | N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine ; Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides ; 2,2'-iminodiethylamine ; Tridecylamine, branched and linear |
| 3(c) | smartDrill ; N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine ; Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides ; Tridecylamine, branched and linear |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content : 0.19 %

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Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

| | |
|--|--|
| Employment restrictions | : Employment prohibitions or restrictions on the protection of young people at work according to § 22 JArbSchG in the case of formation of hazardous substances have to be observed. |
| National Rules and Recommendations | : TRGS 400: Risk Assessment for Activities involving Hazardous Substances. TRGS 401: Risks resulting from skin contact - identification, assessment, measures. TRGS 510: Storage of hazardous substances in non-stationary containers. TRGS 520: Construction and operation of collection points and temporary storage for small amounts of hazardous waste. TRGS 900: Occupational Exposure Limits. |
| Water hazard class (WGK) | : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1). |
| Storage class (LGK, TRGS 510) | : LGK 12 - Non-combustible liquids. |
| Hazardous Incident Ordinance (12. BImSchV) | : Is not subject of the Hazardous Incident Ordinance (12. BImSchV) |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |

Safety Data Sheet

This safety data sheet is for informational purposes only and does not fully comply with national legal requirements. The national distributor is responsible for a legally compliant safety data sheet.

| Abbreviations and acronyms: | |
|-----------------------------|---|
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| TLM | Median Tolerance Limit |
| vPvB | Very Persistent and Very Bioaccumulative |

Data sources : European Chemicals Agency, <http://echa.europa.eu/>. Information provided by the manufacturer.

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| Full text of H- and EUH-statements: | |
|--|--|
| Acute Tox. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| EUH208 | Contains DIETHYLENETRIAMINE. May produce an allergic reaction. |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Sens. 1 | Skin sensitisation, Category 1 |

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Full text of H- and EUH-statements:

| | |
|-----------|--|
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| | | |
|-------------------|------|--------------------|
| Aquatic Chronic 3 | H412 | Calculation method |
|-------------------|------|--------------------|

KFT SDS EU 01

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.