

Light Bond Adhesive Paste Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 2/12/2018 Version: 3

| 1.1. Product identifier | he substance/mixture and of the company/undertaking |
|---|--|
| Product form | : Mixture |
| Product name | : Light Bond Adhesive Paste with and without Fluoride |
| | |
| .2. Relevant identified uses of t | he substance or mixture and uses advised against |
| I.2.1. Relevant identified uses | |
| Jse of the substance/mixture | : For RX only |
| 1.2.2. Uses advised against | |
| 1.2.2. Uses advised against No additional information available | |
| 1.3. Details of the supplier of the | safety data sheet |
| Manufacturer: | |
| Reliance Orthodontic Products, Inc. 154 | 0 West Thorndale Ave. |
| Itasca, IL 60143 USA 630-773-4009, during normal business h | lours |
| www.relianceorthodontics.com | |
| EC Representative: | |
| Emergo Europe, Prinsessgracht 20 | |
| 2514 AP The Hague, The Netherlands | |
| Australian Sponsor: Emergo Australia | , 201 Sussex St. |
| Darling Park, Tower II, Level 20 Sydney, NSW 2000 Australia | |
| | |
| 1.4. Emergency telephone numb | |
| Emergency number | CHEMTREC - 24-Hour Hazmat Emergency Communications Center Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted |
| | |
| SECTION 2: Hazards identification | |
| 2.1. Classification of the substar | ice or mixture |
| Classification according to Regulation | n (EC) No. 1272/2008 [CLP] |
| Skin corrosion/irritation, Category 2 | H315 |
| Skin sensitisation, Category 1 | H317 |
| Full text of H statements : see section 16 | 3 |
| | |
| Adverse physicochemical, human hea | alth and environmental effects |
| Causes skin irritation. May cause an alle | argic skin reaction. |
| 2.2. Label elements | |
| | |
| Labelling according to Regulation (EC lazard pictograms (CLP) | 5) NO. 12/2/2008 [CLP] |
| | |
| | |
| | |
| | GHS07 |
| | |
| ignal word (CLP) | |
| | : Warning |
| lazardous ingredients | |
| lazardous ingredients | : Warning : BisGMA; Proprietary |
| lazardous ingredients lazard statements (CLP) | Warning BisGMA; Proprietary H315 - Causes skin irritation H317 - May cause an allergic skin reaction P261 - Avoid breathing vapours |
| lazardous ingredients lazard statements (CLP) | Warning BisGMA; Proprietary H315 - Causes skin irritation H317 - May cause an allergic skin reaction P261 - Avoid breathing vapours P264 - Wash hands thoroughly after handling |
| lazardous ingredients lazard statements (CLP) | Warning BisGMA; Proprietary H315 - Causes skin irritation H317 - May cause an allergic skin reaction P261 - Avoid breathing vapours |
| lazardous ingredients lazard statements (CLP) | Warning BisGMA; Proprietary H315 - Causes skin irritation H317 - May cause an allergic skin reaction P261 - Avoid breathing vapours P264 - Wash hands thoroughly after handling P272 - Contaminated work clothing should not be allowed out of the workplace P280 - Wear face protection, eye protection, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of soap and water |
| Signal word (CLP) lazardous ingredients lazard statements (CLP) Precautionary statements (CLP) | Warning BisGMA; Proprietary H315 - Causes skin irritation H317 - May cause an allergic skin reaction P261 - Avoid breathing vapours P264 - Wash hands thoroughly after handling P272 - Contaminated work clothing should not be allowed out of the workplace P280 - Wear face protection, eye protection, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of soap and water P321 - Specific treatment (see First aid measures on this label) |
| lazardous ingredients lazard statements (CLP) | Warning BisGMA; Proprietary H315 - Causes skin irritation H317 - May cause an allergic skin reaction P261 - Avoid breathing vapours P264 - Wash hands thoroughly after handling P272 - Contaminated work clothing should not be allowed out of the workplace P280 - Wear face protection, eye protection, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of soap and water |
| lazardous ingredients lazard statements (CLP) | Warning BisGMA; Proprietary H315 - Causes skin irritation H317 - May cause an allergic skin reaction P261 - Avoid breathing vapours P264 - Wash hands thoroughly after handling P272 - Contaminated work clothing should not be allowed out of the workplace P280 - Wear face protection, eye protection, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of soap and water P321 - Specific treatment (see First aid measures on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention |

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accordance with local, regional, national and/or international regulation, a licensed hazardouswaste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste, a hazardous or special waste collection point.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| ame | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|---------|--|
| Fused Silica | (CAS-No.) 60675-86-0 | 50 - 80 | Skin Irrit. 2, H315 |
| Urethane Dimethacrylate | (CAS-No.) Proprietary | 5 - 10 | Eye Irrit. 2, H319 STOT SE 3, H336 |
| BisGMA | (CAS-No.) 1565-94-2 | 1 - 5 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| Proprietary | (CAS-No.) Proprietary (EC-No.) Proprietary | 1 - 5 | Skin Sens. 1B, H317 |
| Sodium Fluoride | (CAS-No.) 7681-49-4 (EC-No.) 231-667-8 (EC Index-No.) 009-004-00-7 | < 1 | Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| Acetic Acid substance with a Community workplace exposure limit | (CAS-No.) 64-19-7 (EC-No.) 200-580-7 (EC Index-No.) 607-002-00-6 | < 0.01 | Flam. Liq. 3, H226 Skin Corr. 1A, H314 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|-------------|-----------------------------|---|
| Acetic Acid | (CAS-No.) 64-19-7 | (10 = <c 2,="" 25)="" <="" eye="" h319<="" irrit.="" th=""></c> |
| | (EC-No.) 200-580-7 | (10 = <c 2,="" 25)="" <="" h315<="" irrit.="" skin="" td=""></c> |
| | (EC Index-No.) 607-002-00-6 | (25 = <c 1b,="" 90)="" <="" corr.="" h314<="" skin="" td=""></c> |
| | | (C >= 90) Skin Corr. 1A, H314 |

Full text of H-statements: see section 16

| SECTION 4: First aid measures | | |
|--|--|--|
| 4.1. Description of first aid measures | | |
| 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. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. | |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. | |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. | |
| 4.2. Most important symptoms and effe | ects, both acute and delayed | |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. | |
| 4.3. Indication of any immediate medica | al attention and special treatment needed | |
| Treat symptomatically. | | |
| SECTION 5: Firefighting measures | | |
| 5.1. Extinguishing media | | |
| Suitable extinguishing media | : Water spray. Dry powder. Foam. | |
| 5.2. Special hazards arising from the su | ubstance or mixture | |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. | |
| 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. | |

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| ccording to Regulation (EC |) No. 1907/2006 (REACH) | with its amendment Regulation (EU) 2015/ | 830 | | |
|----------------------------|--|---|---|--|--|
| SECTION 6: Acci | CTION 6: Accidental release measures | | | | |
| 6.1. Personal pro | Personal precautions, protective equipment and emergency procedures | | | | |
| 6.1.1. For non-eme | For non-emergency personnel | | | | |
| Emergency procedures | ency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing mist, vapours. | | | | |
| 6.1.2. For emerger | ncy responders | | | | |
| Protective equipment | tive equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". | | | | |
| 6.2. Environmen | Environmental precautions | | | | |
| Avoid release to the en | release to the environment. | | | | |
| 6.3. Methods and | d material for contain | nent and cleaning up | | | |
| Methods for cleaning u | | | | | |
| Other information | | | | | |
| 6.4. Reference to | o other sections | | | | |
| For further information | | | | | |
| | | | | | |
| SECTION 7: Hand | | | | | |
| 7.1. Precautions | for safe handling | | | | |
| Precautions for safe ha | ndling | : Ensure good ventilation of the w protective equipment. Avoid bre | vork station. Avoid contact with skin and eyes. Wear personal eathing mist, vapours. | | |
| Hygiene measures | ene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. | | | | |
| 7.2. Conditions f | Conditions for safe storage, including any incompatibilities | | | | |
| Storage conditions | | | | | |
| - | | | | | |
| .3. Specific end use(s) | | | | | |
| No additional information | on available | | | | |
| SECTION 8: Expo | sure controls/pe | sonal protection | | | |
| 8.1. Control para | imeters | | | | |
| Acetic Acid (64-19-7 |) | | | | |
| EU | , IOELV TWA | (mg/m³) | 25 mg/m ³ (Acetic acid; EU; Time-weighted average | | |
| | | | exposure limit 8 h; Indicative occupational exposure limit value) | | |
| EU | IOELV TWA | (ppm) | 10 ppm (Acetic acid; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) | | |
| Belgium | Limit value (i | ng/m³) | 25 mg/m ³ (Acetic Acid; Belgium; Time-weighted average exposure limit 8 h) | | |
| Belgium | Limit value (j | opm) | 10 ppm (Acetic Acid; Belgium; Time-weighted average exposure limit 8 h) | | |
| Belgium | Short time va | alue (mg/m³) | 38 mg/m ³ (Acetic Acid; Belgium; Short time value) | | |
| Belgium | Short time va | alue (ppm) | 15 ppm (Acetic Acid; Belgium; Short time value) | | |
| France | VLE (mg/m ³) | | 25 mg/m ³ (Acetic Acid; France; Short time value;) | | |
| France | VLE (ppm) | | 10 ppm (Acetic Acid; France; Short time value;) | | |
| Netherlands | Grenswaard | e TGG 8H (mg/m³) | 25 mg/m ³ (Acetic Acid; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) | | |
| USA - ACGIH | ACGIH TWA | (ppm) | 10 ppm (Acetic acid; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) | | |
| USA - ACGIH | ACGIH STE | _ (ppm) | 15 ppm (Acetic acid; USA; Short time value; TLV - | | |

| USA - ACGIH | ACGIH STEL (ppm) | 15 ppm (Acetic acid; USA; Short time value; TLV - Adopted Value) | | | | |
|--------------------------|--|--|--|--|--|--|
| Sodium Fluoride (7681-49 | Sodium Fluoride (7681-49-4) | | | | | |
| EU | IOELV TWA (mg/m ³) | 2.5 mg/m ³ (Fluorides, inorganic; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) | | | | |
| Belgium | Limit value (mg/m³) | 2.5 mg/m³ (Fluoride (en F); Belgium; Time-weighted average exposure limit 8 h) | | | | |
| France | VME (mg/m ³) | 2 mg/m ³ (Sodium (Fluoride), en F; France; Time- weighted average exposure limit 8 h) | | | | |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 2 mg/m ³ (Fluoride (als F); Netherlands; Short time value; Public occupational exposure limit value; als F) | | | | |

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| Sodium Fluoride (7681-49-4) | | | |
|-----------------------------|-------------------|--|--|
| United Kingdom | WEL TWA (mg/m³) | 2.5 mg/m ³ Fluorides (inorganic as F); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) | |
| USA - ACGIH | ACGIH TWA (mg/m³) | 2.5 mg/m ³ (Fluorides, as F; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) | |

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Protective goggles

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Avoid release to the environment.

| SECTION 9: Physical and chemical properties | | |
|--|---------------------|--|
| 9.1. Information on basic physical and chemical properties | | |
| Physical state | : Solid | |
| Appearance | : Paste. | |
| Colour | : Yellow / Blue. | |
| Odour | : Acrylic. | |
| Odour threshold | : No data available | |
| pH | : No data available | |
| Relative evaporation rate (butylacetate=1) | : No data available | |
| Melting point | : No data available | |
| Freezing point | : Not applicable | |
| Boiling point | : No data available | |
| Flash point | : Not applicable | |
| Auto-ignition temperature | : Not applicable | |
| Decomposition temperature | : No data available | |
| Flammability (solid, gas) | : Non flammable. | |
| Vapour pressure | : No data available | |
| Relative vapour density at 20 °C | : No data available | |
| Relative density | : Not applicable | |
| Solubility | : No data available | |
| Log Pow | : No data available | |
| Viscosity, kinematic | : Not applicable | |
| Viscosity, dynamic | : No data available | |
| Explosive properties | : No data available | |
| Oxidising properties | : No data available | |
| Explosive limits | : Not applicable | |
| 9.2. Other information | | |
| No additional information quailable | | |

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

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Acute toxicity (dermal)

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| 40.0 | | | | | |
|----------|--|--|--|--|--|
| 10.2. | Chemical stability | | | | |
| Stable ι | Stable under normal conditions. | | | | |
| 10.3. | Possibility of hazardous reactions | | | | |
| No dang | No dangerous reactions known under normal conditions of use. | | | | |
| 10.4. | Conditions to avoid | | | | |
| None ur | None under recommended storage and handling conditions (see section 7). | | | | |
| 10.5. | Incompatible materials | | | | |
| No addi | tional information available | | | | |
| 10.6. | Hazardous decomposition products | | | | |
| Under n | Under normal conditions of storage and use, hazardous decomposition products should not be produced. | | | | |
| SECT | SECTION 11: Toxicological information | | | | |
| 11.1. | Information on toxicological effects | | | | |
| Acute to | exicity (oral) : Not classified | | | | |

: Not classified

| Acute toxicity (inhalation) | : Not classified |
|---|---|
| Fused Silica (60675-86-0) | |
| LD50 oral rat | N/A |
| LD50 dermal rat | N/A |
| LD50 dermal rabbit | N/A |
| LC50 inhalation rat (ppm) | N/A |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | N/A mg/l/4h |
| LC50 inhalation rat (Vapours - mg/l/4h) | N/A mg/l/4h |
| Urethane Dimethacrylate (Proprieta | ary) |
| LD50 oral rat | N/A |
| LD50 dermal rat | N/A |
| LD50 dermal rabbit | N/A |
| LC50 inhalation rat (ppm) | N/A |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | N/A mg/l/4h |
| LC50 inhalation rat (Vapours - mg/l/4h) | N/A mg/l/4h |
| Proprietary (Proprietary) | |
| LD50 oral rat | > 2000 mg/kg bodyweight (Rat; Literature study) |
| LD50 dermal rat | > 2000 mg/kg bodyweight (Rat; Literature study) |
| Acetic Acid (64-19-7) | |
| LD50 oral rat | 3310 mg/kg bodyweight (Rat; Other; Read-across) |
| Sodium Fluoride (7681-49-4) | |
| LD50 oral rat | 52 mg/kg (Rat) |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| | |

STOT-single exposure

: Not classified

| Fused Silica (60675-86-0) | |
|---|----------------------|
| LOAEL (oral, rat) | N/A mg/kg bodyweight |
| LOAEL (dermal, rat/rabbit) | N/A mg/kg bodyweight |
| LOAEC (inhalation, rat, gas) | N/A ppmv/4h |
| LOAEC (inhalation, rat, vapour) | N/A mg/l/4h |
| LOAEC (inhalation, rat, dust/mist/fume) | N/A mg/l/4h |
| Urethane Dimethacrylate (Proprietary) | |
| LOAEL (oral, rat) | N/A mg/kg bodyweight |
| LOAEL (dermal, rat/rabbit) | N/A mg/kg bodyweight |
| | |

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| Urethane Dimethacrylate (Proprietary) | |
|---|--------------------------|
| LOAEC (inhalation, rat, gas) | N/A ppmv/4h |
| LOAEC (inhalation, rat, vapour) | N/A mg/l/4h |
| LOAEC (inhalation, rat, dust/mist/fume) | N/A mg/l/4h |
| STOT-repeated exposure : | Not classified |
| Fused Silica (60675-86-0) | |
| LOAEL (oral, rat, 90 days) | N/A mg/kg bodyweight/day |
| LOAEL (dermal, rat/rabbit, 90 days) | N/A mg/kg bodyweight/day |
| LOAEC (inhalation, rat, gas, 90 days) | N/A ppmv/6h/day |
| LOAEC (inhalation, rat, vapour, 90 days) | N/A mg/l/6h/day |
| LOAEC (inhalation, rat,dust/mist/fume, 90 days) | N/A mg/l/6h/day |
| Urethane Dimethacrylate (Proprietary) | |
| LOAEL (oral, rat, 90 days) | N/A mg/kg bodyweight/day |
| LOAEL (dermal, rat/rabbit, 90 days) | N/A mg/kg bodyweight/day |
| LOAEC (inhalation, rat, gas, 90 days) | N/A ppmv/6h/day |
| LOAEC (inhalation, rat, vapour, 90 days) | N/A mg/l/6h/day |
| LOAEC (inhalation, rat,dust/mist/fume, 90 days) | N/A mg/l/6h/day |
| Aspiration hazard : | Not classified |

| SECTION 12: Ecological information | |
|------------------------------------|---|
| 12.1. Toxicity | |
| Ecology - general | The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Acute aquatic toxicity | Not classified |
| Chronic aquatic toxicity | Not classified |
| Proprietary (Proprietary) | |
| LC50 fish 1 | 175 mg/l (LC50; 96 h) |
| LC50 fish 2 | > 100 mg/l (LC50; EU Method C.1; 96 h; Brachydanio rerio; Semi-static system; Fresh water; Experimental value) |
| EC50 Daphnia 1 | > 100 mg/l (EC50; EU Method C.2; 48 h; Daphnia magna; Static system; Fresh water; Experimental value) |
| EC50 Daphnia 2 | >= 100 mg/l (NOEC; EU Method C.2; 48 h; Daphnia magna; Static system; Fresh water; Experimental value) |
| Threshold limit algae 1 | > 100 mg/l (EC50; EU Method C.3; 72 h; Scenedesmus subspicatus; Static system; Fresh water; Experimental value) |
| Threshold limit algae 2 | > 100 mg/l (EC50; EU Method C.3; 72 h; Scenedesmus subspicatus; Static system; Fresh water; Experimental value) |
| Sodium Fluoride (7681-49-4) | |
| LC50 fish 1 | > 530 mg/l (LC50; 96 h) |
| EC50 Daphnia 1 | 98 mg/l (EC50; 48 h) |

12.2. Persistence and degradability

| Proprietary (Proprietary) | | | |
|---------------------------------|---|--|--|
| Persistence and degradability | Readily biodegradable in water. | | |
| Acetic Acid (64-19-7) | etic Acid (64-19-7) | | |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. | | |
| Biochemical oxygen demand (BOD) | 0.6 - 0.74 g O₂/g substance | | |
| Chemical oxygen demand (COD) | 1.03 g O₂/g substance | | |
| ThOD | 1.07 g O₂/g substance | | |
| Sodium Fluoride (7681-49-4) | | | |
| Persistence and degradability | Biodegradability: not applicable. | | |
| Biochemical oxygen demand (BOD) | Not applicable | | |
| Chemical oxygen demand (COD) | Not applicable | | |
| ThOD | Not applicable | | |

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| 12.3. Bioaccumulative potential | | | |
|--|--|--|--|
| Proprietary (Proprietary) | Proprietary (Proprietary) | | |
| Log Pow | 0.75 (Calculated) | | |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). | | |
| | | | |
| Acetic Acid (64-19-7) | | | |
| BCF fish 1 | 3.16 (BCF; Pisces) | | |
| Log Pow | -0.17 (Experimental value; 25 °C) | | |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). | | |
| Sodium Fluoride (7681-49-4) | | | |
| BCF fish 1 | 2.3 (BCF) | | |
| Bioaccumulative potential | Not bioaccumulative. | | |
| 12.4. Mobility in soil | | | |
| - | | | |
| Acetic Acid (64-19-7) | | | |
| Surface tension | 0.028 N/m (20 °C) | | |
| Log Koc | log Koc,0.06; QSAR | | |
| Ecology - soil | May be harmful to plant growth, blooming and fruit formation. | | |
| Sodium Fluoride (7681-49-4) | | | |
| Ecology - soil | Toxic to flora. | | |
| 12.5. Results of PBT and vPvB assessmen | · | | |
| No additional information available | • | | |
| | | | |
| 12.6. Other adverse effects | | | |
| No additional information available | | | |
| SECTION 13: Disposal considerations | | | |
| | | | |
| 13.1. Waste treatment methods | | | |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. | | |
| SECTION 14: Transport information | | | |
| SECTION 14: Transport information | | | |
| | A. | | |
| In accordance with ADR / RID / IMDG / IATA / AD | Ν | | |
| | N | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number | | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) | : Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) | : Not applicable : Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) | Not applicable Not applicable Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) | Not applicable Not applicable Not applicable Not applicable Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) | Not applicable Not applicable Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) | Not applicable Not applicable Not applicable Not applicable Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name | Not applicable Not applicable Not applicable Not applicable Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) | Not applicable Not applicable Not applicable Not applicable Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) 14.3. Transport hazard class(es) | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) IMDG | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) IMDG | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IMTA) UN-No. (IATA) UN-No. (RD) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) IMDG Transport hazard class(es) (IMDG) | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IMTA) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (IATA) Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) IMDG Transport hazard class(es) (IMDG) IATA | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IMTA) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (IATA) Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) IMDG Transport hazard class(es) (IMDG) IATA | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IMTA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) IMDG Transport hazard class(es) (IMDG) IATA Transport hazard class(es) (IATA) | Not applicable | | |
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| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) IMDG Transport hazard class(es) (IMDG) IATA Transport hazard class(es) (IATA) ADN | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) IMDG Transport hazard class(es) (IMDG) IATA Transport hazard class(es) (IATA) ADN | Not applicable | | |
| In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) IMDG Transport hazard class(es) (IMDG) IATA Transport hazard class(es) (IATA) ADN | Not applicable | | |

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| Transport hazard class(es) (RID) | : Not applicable |
|------------------------------------|--|
| 14.4. Packing group | |
| Packing group (ADR) | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Packing group (ADN) | : Not applicable |
| Packing group (RID) | : Not applicable |
| 14.5. Environmental hazards | |
| Dangerous for the environment | : No |
| Marine pollutant | : No |
| Other information | : No supplementary information available |
| 14.6. Special precautions for user | |

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. **EU-Regulations**

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. **National regulations**

Germany

| VwVwS Annex reference | : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4) | |
|--|--|--|
| 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV | : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) | |
| Netherlands | | |
| SZW-lijst van kankerverwekkende stoffen | : None of the components are listed | |
| SZW-lijst van mutagene stoffen | : None of the components are listed | |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding | : None of the components are listed | |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid | : None of the components are listed | |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling | : None of the components are listed | |
| Denmark | | |
| Recommendations Danish Regulation | : Young people below the age of 18 years are not allowed to use the product | |
| 15.2. Chemical safety assessment | | |
| No shaminal asfati assassment has been aswise | l out | |

No chemical safety assessment has been carried out

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 16: Other information

Full text of H- and EUH-statements:

| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
|---------------------|--|
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1A |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H226 | Flammable liquid and vapour |
| H301 | Toxic if swallowed |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H336 | May cause drowsiness or dizziness |

SDS EU (REACH Annex II)

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