

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

1.1. Product identifier

Product form : Mixture
Product name : Resin TP Excellent UV B-component

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : B-component corresponding to A-component

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Quartzline BV
W.A. Boogaerdstraat 5
3316 BN Dordrecht - Nederland
T +31 (0)78 6513100 - F +31 (0)78 6177390
info@quartzline.nl - www.quartzline.nl

1.4. Emergency telephone number

Emergency number : +31 (0)78 6513100
This number is serviced during office hours.

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|--|------------------------------------|------------------|-----------------------------------|
| United Kingdom | National Poisons Information Service (Belfast Centre) Royal Victoria Hospital | Grosvenor Road BT12 6BA Belfast | 0344 892 0111 | Only for healthcare professionals |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302
Acute toxicity (inhalation:dust,mist) Category 4 H332
Skin corrosion/irritation, Category 1, Sub-Category 1B H314
Serious eye damage/eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
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 if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS07

Signal word (CLP) :

Danger

Contains :

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia, Formaldehyde, oligomeric reaction products with 3,3'-iminodi(propylamine), 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane, bis-[4-(2,3-epoxipropoxy)phenyl]propane

Hazard statements (CLP) :

H302+H332 - Harmful if swallowed or if inhaled.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

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Precautionary statements (CLP)

: P261 - Avoid breathing vapours, mist.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective clothing, protective gloves, eye protection.
P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a doctor, a POISON CENTER.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor, a POISON CENTER.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH 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 | Conc. (% w/w) | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------------|---|
| Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia | CAS-No.: 9046-10-0 EC-No.: 618-561-0 REACH-no: 01-2119557899-12 | 50 – 70 | Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 |
| Formaldehyde, oligomeric reaction products with 3,3'-iminodi(propylamine) | CAS-No.: 161278-35-9 EC-No.: 500-626-9 | 10 – 20 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | CAS-No.: 2855-13-2 EC-No.: 220-666-8 EC Index-No.: 612-067-00-9 REACH-no: 01-2119514687-32 | 3 – 10 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 3, H412 |
| 1,3-cyclohexylenbis(methylamine) | CAS-No.: 2579-20-6 EC-No.: 219-941-5 REACH-no: 01-2119543741-41 | 3 – 5 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 |
| benzyl alcohol | CAS-No.: 100-51-6 EC-No.: 202-859-9 EC Index-No.: 603-057-00-5 REACH-no: 01-2119492630-38 | 2 – 3 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | CAS-No.: 1675-54-3 EC-No.: 216-823-5 EC Index-No.: 603-073-00-2 REACH-no: 01-2119456619-26 | 1 – 2 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-([2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl]oxirane | EC-No.: 701-263-0 REACH-no: 01-2119454392-40 | 0,25 – 1 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |

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| Specific concentration limits | | |
|--|---|---|
| Name | Product identifier | Specific concentration limits |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | CAS-No.: 2855-13-2 EC-No.: 220-666-8 EC Index-No.: 612-067-00-9 REACH-no: 01-2119514687-32 | (0,001 ≤C ≤ 100) Skin Sens. 1A, H317 |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | CAS-No.: 1675-54-3 EC-No.: 216-823-5 EC Index-No.: 603-073-00-2 REACH-no: 01-2119456619-26 | (5 ≤C ≤ 100) Skin Irrit. 2, H315 (5 ≤C ≤ 100) Eye Irrit. 2, H319 |

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 | : Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. |
| First-aid measures after skin contact | : Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. |
| First-aid measures after eye contact | : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. |
| First-aid measures after ingestion | : Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER/doctor. |

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

| | |
|-------------------------------------|---|
| Symptoms/effects after skin contact | : Burns. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |
| Symptoms/effects after ingestion | : Burns. |

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 | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--|
| Fire hazard | : Presents no particular fire or explosion hazard. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|---|
| Emergency procedures | : Evacuate unnecessary personnel. Avoid contact with skin and eyes. Do not breathe vapours, mist. |
|----------------------|---|

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Ventilate area. |

6.2. Environmental precautions

Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| Methods for cleaning up | : Take up liquid spill into absorbent material. Sweep or shovel spills into appropriate container for disposal. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

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6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|---|
| Precautions for safe handling | : Provide good ventilation in process area to prevent formation of vapour. Do not breathe vapours, mist. Avoid contact with skin and eyes. Wear personal protective equipment. Concerning personal protective equipment to use, see section 8. |
| Hygiene measures | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|---------------------------|--|
| Storage conditions | : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Store locked up. |
| Incompatible products | : Strong bases. Strong acids. Strong oxidizing agent. |
| Heat and ignition sources | : Keep away from heat and direct sunlight. |

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

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

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

Personal protective equipment:

Protective clothing. Gloves. Safety glasses.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. DIN EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. CEN : EN 340; EN 369; EN 465

Hand protection:

Wear suitable gloves resistant to chemical penetration. Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

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| Hand protection | | | | | |
|-----------------|---|-------------------|----------------|-------------|------------|
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Gloves | Nitrile rubber (NBR), Polyvinylchloride (PVC) | 6 (> 480 minutes) | ≥0,11 | | EN ISO 374 |

8.2.2.3. Respiratory protection

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. EN 143

| Respiratory protection | | | |
|------------------------|---|--|----------|
| Device | Filter type | Condition | Standard |
| Aerosol mask | Type A - High-boiling (>65 °C) organic compounds, Type P2 | Vapour protection, Protection for Liquid particles | EN 143 |

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 during use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|-----------------------|
| Physical state | : Liquid |
| Colour | : Colourless. |
| Appearance | : Transparent. clear. |
| Odour | : Amine-like. |
| Odour threshold | : Not available |
| Melting point | : Not available |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Not available |
| Explosive limits | : Not available |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : Not available |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : Not available |
| Solubility | : Not available |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50 °C | : Not available |
| Density | : Not available |
| Relative density | : Not available |
| Relative vapour density at 20 °C | : Not available |
| Particle size | : Not applicable |
| Particle size distribution | : Not applicable |
| Particle shape | : Not applicable |
| Particle aspect ratio | : Not applicable |
| Particle aggregation state | : Not applicable |
| Particle agglomeration state | : Not applicable |

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Particle specific surface area : Not applicable
Particle dustiness : 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

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Keep away from heat and direct sunlight.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agent.

10.6. Hazardous decomposition products

Combustion generates: Carbon oxides (CO, CO₂). Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Harmful if inhaled.

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|---|---------------------------|
| ATE oral | 1499,486 mg/kg bodyweight |
| ATE dust/mist | 4,036 mg/l/4h |
| Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (9046-10-0) | |
| LD50 oral rat | 2885 mg/kg |
| LD50 dermal rabbit | 2980 mg/kg |
| ATE oral | 2885 mg/kg bodyweight |
| ATE dermal | 2980 mg/kg bodyweight |
| 1,3-cyclohexylenbis(methylamine) (2579-20-6) | |
| ATE oral | 500 mg/kg bodyweight |
| ATE dermal | 1100 mg/kg bodyweight |
| Formaldehyde, oligomeric reaction products with 3,3'-iminodi(propylamine) (161278-35-9) | |
| ATE oral | 500 mg/kg bodyweight |
| ATE dermal | 1100 mg/kg bodyweight |
| ATE gases | 4500 ppmv/4h |
| ATE vapours | 11 mg/l/4h |
| ATE dust/mist | 1,5 mg/l/4h |
| benzyl alcohol (100-51-6) | |
| LD50 oral rat | 1620 mg/kg |
| ATE oral | 1620 mg/kg bodyweight |
| ATE gases | 4500 ppmv/4h |
| ATE vapours | 11 mg/l/4h |
| ATE dust/mist | 1,5 mg/l/4h |

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| 3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2) | |
|---|-----------------------|
| LD50 oral rat | 1030 mg/kg |
| LD50 dermal rabbit | 1340 mg/kg |
| ATE oral | 1030 mg/kg bodyweight |
| ATE dermal | 1340 mg/kg bodyweight |

| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane | |
|--|--------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |

| bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3) | |
|--|---------------|
| LD50 oral rat | > 15000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Causes severe skin burns. |
| Serious eye damage/irritation | : Causes serious eye damage. |
| 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 |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

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. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Harmful to aquatic life with long lasting effects. |

| Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (9046-10-0) | |
|--|---|
| LC50 - Fish [1] | > 15 mg/l (OECD 203; Oncorhynchus mykiss) |
| EC50 - Crustacea [1] | 80 mg/l (OECD 202; Daphnia magna) |
| ErC50 algae | 15 mg/l (OECD 201; Pseudokirchneriella subcapitata) |
| NOEC chronic algae | 0,32 mg/l (OECD 201; Pseudokirchneriella subcapitata) |

| 1,3-cyclohexylenbis(methylamine) (2579-20-6) | |
|---|---|
| LC50 - Fish [1] | 130 mg/l (OECD 203; Leuciscus idus) |
| EC50 - Crustacea [1] | 33,1 mg/l (OECD 202; Daphnia magna) |
| ErC50 algae | 56,7 mg/l (OECD 201; Pseudokirchneriella subcapitata) |

| benzyl alcohol (100-51-6) | |
|----------------------------------|--|
| LC50 - Fish [1] | 460 mg/l (Pimephales promelas) |
| EC50 - Crustacea [1] | 230 mg/l (OECD 202; Daphnia magna) |
| ErC50 algae | 770 mg/l (OECD 201; Pseudokirchneriella subcapitata) |
| NOEC chronic crustacea | 51 mg/l (OECD 211; Daphnia magna) |
| NOEC chronic algae | 310 mg/l (OECD 201; Pseudokirchneriella subcapitata) |

| 3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2) | |
|---|--|
| LC50 - Fish [1] | 110 mg/l (EU Method C.1; Leuciscus idus) |

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| 3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2) | |
|--|--|
| EC50 - Crustacea [1] | 23 mg/l (OECD 202; Daohnia magna) |
| ErC50 algae | > 50 mg/l (EU Method C.3; Desmodesmus subspicatus) |
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane | |
| EC50 72h - Algae [1] | ≥ 1,8 mg/l (OECD 201; Pseudokirchneriella subcapitata) |
| NOEC chronic crustacea | 0,3 mg/l (OECD 211; Daphnia magna) |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3) | |
| LC50 - Fish [1] | 2 mg/l (Oncorhynchus mykiss) |
| EC50 - Crustacea [1] | 1,8 mg/l (Daphnia magna) |
| ErC50 algae | > 11 mg/l (Scenedesmus capricornutum) |
| NOEC chronic crustacea | 0,3 mg/l (OECD 211; Daphnia magna) |
| NOEC chronic algae | 2,4 mg/l (Oncorhynchus mykiss) |
| 12.2. Persistence and degradability | |
| Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (9046-10-0) | |
| Persistence and degradability | Not readily biodegradable. |
| 1,3-cyclohexylenbis(methylamine) (2579-20-6) | |
| Persistence and degradability | Not readily biodegradable. |
| benzyl alcohol (100-51-6) | |
| Persistence and degradability | Readily biodegradable. |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2) | |
| Persistence and degradability | Not readily biodegradable. |
| 12.3. Bioaccumulative potential | |
| Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (9046-10-0) | |
| Partition coefficient n-octanol/water (Log Pow) | 1,34 (25 °C) |
| 1,3-cyclohexylenbis(methylamine) (2579-20-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 0,783 (21,5 °C; pH>12) |
| benzyl alcohol (100-51-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 1,1 (20 °C) |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 0,99 (23 °C; pH 6,34) |
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane | |
| Partition coefficient n-octanol/water (Log Pow) | 3,6 (20 °C) |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3) | |
| Partition coefficient n-octanol/water (Log Pow) | ≥ 2,918 (25 °C; pH 7,1) |
| 12.4. Mobility in soil | |
| No additional information available | |
| 12.5. Results of PBT and vPvB assessment | |
| No additional information available | |
| 12.6. Endocrine disrupting properties | |
| No additional information available | |
| 12.7. Other adverse effects | |
| Additional information | : Avoid release to the environment. |

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|--|
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. Dispose in a safe manner in accordance with local/national regulations. |
| Additional information | : Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. |
| Ecology - waste materials | : Avoid release to the environment. |
| European List of Waste (LoW) code | : 08 00 00 - WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|--|--|--|--|
| 14.1. UN number or ID number | | | | |
| UN 2735 | UN 2735 | UN 2735 | UN 2735 | UN 2735 |
| 14.2. UN proper shipping name | | | | |
| AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS : 3-aminomethyl-3,5,5-trimethylcyclohexylamine) | AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS : 3-aminomethyl-3,5,5-trimethylcyclohexylamine) | Amines, liquid, corrosive, n.o.s. (CONTAINS : 3-aminomethyl-3,5,5-trimethylcyclohexylamine) | AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS : 3-aminomethyl-3,5,5-trimethylcyclohexylamine) | AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS : 3-aminomethyl-3,5,5-trimethylcyclohexylamine) |
| Transport document description | | | | |
| UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS : 3-aminomethyl-3,5,5-trimethylcyclohexylamine), 8, II, (E) | UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS : 3-aminomethyl-3,5,5-trimethylcyclohexylamine), 8, II | UN 2735 Amines, liquid, corrosive, n.o.s. (CONTAINS : 3-aminomethyl-3,5,5-trimethylcyclohexylamine), 8, II | UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS : 3-aminomethyl-3,5,5-trimethylcyclohexylamine), 8, II | UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS : 3-aminomethyl-3,5,5-trimethylcyclohexylamine), 8, II |
| 14.3. Transport hazard class(es) | | | | |
| 8 | 8 | 8 | 8 | 8 |
|  |  |  |  |  |
| 14.4. Packing group | | | | |
| II | II | II | II | II |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

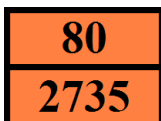
| | |
|---|---------------|
| Classification code (ADR) | : C7 |
| Special provisions (ADR) | : 274 |
| Limited quantities (ADR) | : 1I |
| Excepted quantities (ADR) | : E2 |
| Packing instructions (ADR) | : P001, IBC02 |
| Mixed packing provisions (ADR) | : MP15 |
| Portable tank and bulk container instructions (ADR) | : T11 |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP27 |
| Tank code (ADR) | : L4BN |
| Vehicle for tank carriage | : AT |

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Transport category (ADR) : 2
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : 2X

Transport by sea

Special provisions (IMDG) : 274
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T11
Tank special provisions (IMDG) : TP1, TP27
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : A
Segregation (IMDG) : SGG18, SG35
Properties and observations (IMDG) : Colourless to yellowish liquids or solutions with a pungent odour. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Reacts violently with acids. Cause burns to skin, eyes and mucous membranes.
MFAg-No : 153

Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity (IATA) : 0.5L
PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
Special provisions (IATA) : A3, A803
ERG code (IATA) : 8L

Inland waterway transport

Classification code (ADN) : C7
Special provisions (ADN) : 274
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : C7
Special provisions (RID) : 274
Limited quantities (RID) : 1L
Excepted quantities (RID) : E2
Packing instructions (RID) : P001, IBC02
Mixed packing provisions (RID) : MP15
Portable tank and bulk container instructions (RID) : T11
Portable tank and bulk container special provisions (RID) : TP1, TP27
Tank codes for RID tanks (RID) : L4BN

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Transport category (RID) : 2
Colis express (express parcels) (RID) : CE6
Hazard identification number (RID) : 80

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

| EU restriction list (REACH Annex XVII) | | |
|--|--|---|
| Reference code | Applicable on | Entry title or description |
| 3(b) | Resin TP Excellent UV B-component ; Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia ; 1,3-cyclohexylenbis(methylamine) ; Formaldehyde, oligomeric reaction products with 3,3'-iminodi(propylamine) ; benzyl alcohol ; 3-aminomethyl-3,5,5-trimethylcyclohexylamine ; Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-((2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane ; bis-[4-(2,3-epoxipropoxy)phenyl]propane | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c) | Resin TP Excellent UV B-component ; Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia ; 1,3-cyclohexylenbis(methylamine) ; 3-aminomethyl-3,5,5-trimethylcyclohexylamine ; Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-((2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane ; bis-[4-(2,3-epoxipropoxy)phenyl]propane | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes | | | |
|-----------------------|---|----------|----------|
| Section | Changed item | Change | Comments |
| | Supersedes | Added | |
| | Revision date | Added | |
| | SDS EU format | Modified | |
| 1.2 | Main use category | Modified | |
| 1.2 | Use of the substance/mixture | Added | |
| 2.1 | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Modified | |
| 2.1 | Adverse physicochemical, human health and environmental effects | Modified | |
| 2.2 | Precautionary statements (CLP) | Modified | |
| 2.2 | Hazard statements (CLP) | Modified | |
| 3 | Composition/information on ingredients | Modified | |
| 4.1 | First-aid measures general | Modified | |
| 5.2 | Hazardous decomposition products in case of fire | Modified | |
| 6.1 | Emergency procedures | Modified | |
| 7.1 | Precautions for safe handling | Modified | |
| 7.2 | Storage conditions | Modified | |
| 8.2 | Respiratory protection | Modified | |
| 8.2 | Personal protective equipment | Modified | |
| 9.1 | Odour | Modified | |
| 9.1 | Appearance | Modified | |
| 11.1 | ATE dust/mist | Added | |
| 11.1 | ATE oral | Modified | |
| 12.1 | Ecology - general | Modified | |
| 14.4 | Packing group (ADN) | Modified | |
| 14.4 | Packing group (IATA) | Modified | |
| 14.4 | Packing group (IMDG) | Modified | |
| 14.4 | Packing group (ADR) | Modified | |
| 14.6 | Packing instructions (IMDG) | Modified | |
| 14.6 | Transport category (ADR) | Modified | |
| 14.6 | Excepted quantities (ADR) | Modified | |
| 14.6 | Limited quantities (ADR) | Modified | |
| 16 | Data sources | Modified | |

Abbreviations and acronyms

| | |
|-------|---|
| SDS | Safety Data Sheet |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |

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| Abbreviations and acronyms | |
|----------------------------|---|
| PBT | Persistent Bioaccumulative Toxic |
| vPvB | Very Persistent and Very Bioaccumulative |
| 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 |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| CAS | CAS (Chemical Abstracts Service) number |
| EG-nr | EINECS- en ELINCS-number |
| EINECS | European Inventory of Existing Commercial Substances |
| OEL | Occupational Exposure Limit |

Data sources : according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878.

Other information : REACH Disclaimer:
This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

| Full text of H- and EUH-statements | |
|-------------------------------------|---|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

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| Full text of H- and EUH-statements | |
|------------------------------------|--|
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1A | Skin sensitisation, category 1A |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] | | |
|--|------|--------------------|
| Acute Tox. 4 (Oral) | H302 | Calculation method |
| Acute Tox. 4 (Inhalation:dust,mist) | H332 | Calculation method |
| Skin Corr. 1B | H314 | Calculation method |
| Eye Dam. 1 | H318 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

Safety Data Sheet applicable for regions : GB - United Kingdom

The classification complies with : ATP 12

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