# Safety data sheet
## complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 11.09.2025 Version number 3 (replaces version 2) Revision: 11.09.2025

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

### 1.1 Product identifier

**Trade name:** KLB-SYSTEM EPOXID EP 150 Component B

### 1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
**Application of the substance / the mixture:**
Epoxy coating
Hardening agent

### 1.3 Details of the supplier of the safety data sheet
**Manufacturer/Supplier:**
PENETRON HELLAS S.A.
50, THRAKOMAKEDONON AV., 136 79 ACHARNES, GREECE
TEL.: +30 210 2448250 - FAX: + 30 210 2476803
Email: info@penetron.gr Site: www.penetron.gr
G.E.MI. No: 07278001000

### 1.4 Emergency telephone number:

European Emergency Tel.: 112

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture
**Classification according to Regulation EC No 1272/2008 CLP:**

GHS05 corrosion

| | |
|---|---|
| Skin Corr. 1A | H314 Causes severe skin burns and eye damage. |
| Eye Dam. 1 | H318 Causes serious eye damage. |

GHS07

| | |
|---|---|
| Acute Tox. 4 | H302 Harmful if swallowed. |
| Skin Sens. 1 | H317 May cause an allergic skin reaction. |
| Aquatic Chronic 3 | H412 Harmful to aquatic life with long lasting effects. |

### 2.2 Label elements
**Labelling according to Regulation EC No 1272/2008 CLP:**
The product is classified and labelled according to the CLP regulation.

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**Hazard pictograms:**

GHS05 GHS07

**Signal word:** Danger

**Hazard-determining components of labelling:**
Benzyl alcohol
3-aminomethyl-3,5,5-trimethylcyclohexylamine
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
1,3-Cyclohexanedimethanamine
alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethandiyl))

**Hazard statements:**
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

| | |
|---|---|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

**2.3 Other hazards**
**Results of PBT and vPvB assessment**
**PBT:** Not applicable.
**vPvB:** Not applicable.
**Determination of endocrine-disrupting properties**
The product does not contain substances included in the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties or has not been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or higher than 0.1%.

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## SECTION 3: Composition/information on ingredients

**3.2 Mixtures**
**Description:** Mixture of substances listed below with nonhazardous additions.

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**Ingredients according Regulation (EU) 2020/878:**

| | | |
|---|---|---|
| CAS: 100-51-6<br>EINECS: 202-859-9<br>Index number: 603-057-00-5<br>Reg.nr.: 01-2119492630-38-XXXX | Benzyl alcohol<br>Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1B, H317<br>ATE: LD50 oral: 1,200 mg/kg | 25-50% |
| CAS: 2855-13-2<br>EINECS: 220-666-8<br>Index number: 612-067-00-9<br>Reg.nr.: 01-2119514687-32-XXXX | 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317<br>ATE: LD50 oral: 1,030 mg/kg<br>Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 % | 10-25% |
| CAS: 38294-64-3<br>NLP: 500-101-4<br>Reg.nr.: 01-2119965165-33-XXXX | 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Chronic 3, H412 | 10-<25% |
| CAS: 2579-20-6<br>EINECS: 219-941-5<br>Reg.nr.: 01-2119543741-41-XXXX | 1,3-Cyclohexanedimethanamine<br>Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Aquatic Chronic 3, H412 | 5-<10% |
| CAS: 9046-10-0<br>Reg.nr.: 01-2119557899-12-XXXX | alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethandiyl))<br>Skin Corr. 1B, H314; Aquatic Chronic 3, H412 | 5-<10% |

**SVHC**
This product does not contain candidate substances of very high concern at a concentration ≥0.1% (Regulation (EC) No 1907/2006 (REACH), Article 59)
**Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures
**General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
**After inhalation:**
Supply fresh air; consult doctor in case of discomfort.
In case of unconsciousness place patient stably in side position for transportation.
**After skin contact:** Immediately wash with water and soap and rinse thoroughly.
**After eye contact:** Wash the eyes under running water for a long time and open the eyelids.
**After swallowing:**
Call a doctor immediately.
The affected person requires a lot of water and fresh air. Call a physician immediately.
### 4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

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**4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**
**Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
**5.2 Special hazards arising from the substance or mixture** No further relevant information available.
**5.3 Advice for firefighters**
**Protective equipment:** Respiratory protective device.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
**6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow it to enter sewers/ surface or ground water. It must not penetrate the earth's waters.
**6.3 Methods and material for containment and cleaning up:**
Collected with liquid binders. (sand, pyrite deposits, acid binders, general binders, sawdust).
Use neutralizing agents.
Dispose contaminated material as waste according to section 13.
**6.4 Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**
Prevent the formation of aerosols.
Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace
**Information about fire - and explosion protection:** No special measures required.
**7.2 Conditions for safe storage, including any incompatibilities**
**Storage:** Store in tightly closed packages in a cool and dry place.
**Requirements to be met by storerooms and receptacles:** No special requirements.
**Information about storage in one common storage facility:** Not required.
**Further information about storage conditions:** Keep container tightly sealed.
**7.3 Specific end use(s)** No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**
**Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
**DNELs**
(CAS: 100-51-6) benzyl alcohol
Consumers:
Short-term exposure, acute systemic effects, oral: 20 mg/kg
Long-term exposure, systemic effects, oral: 4 mg/kg

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Short-term exposure, systemic effects, inhalation: 27 mg/m³
Long-term exposure, systemic effects, inhalation: 5.4 mg/m³
Workers:
Short-term exposure, systemic effects, inhalation: 110 mg/m³
Long-term exposure, systemic effects, inhalation: 22 mg/m³
Short-term exposure, systemic effects, dermal: 40 mg/kg
Long-term exposure, systemic effects, dermal: 8 mg/kg
(CAS: 38294-64-3) 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
Workers:
Inhalation - Long-term exposure, Systemic effects: 0.493 mg/m³
Dermal - Long-term exposure, Systemic effects: 0.14 mg/kg bw/d
Consumers:
Inhalation - Long-term exposure, Systemic effects: 74 µg/m³
Dermal - Long-term exposure, Systemic effects: 50 µg/kg bw/d
Oral - Long-term exposure, Systemic effects: 50 µg/kg bw/d
(CAS: 2855-13-2) 3-aminomethyl-3,5,5-trimethylcyclohexylamine
Workers:
Inhalation - Long-term exposure, Local effects: 0.073 mg/m³
Inhalation - Acute/short-term exposure, Local effects: 0.073 mg/m³
Consumers:
Oral - Long-term exposure, Systemic effects: 0.3 mg/kg bw/d
Oral - Acute/short-term exposure, Systemic effects: 0.3 mg/kg bw/d

**PNECs**
(CAS: 100-51-6) benzyl alcohol
Soil: 0.456 mg/kg
Sewage treatment plant: 39 mg/l
Sediment marine water: 0,527 mg/kg
Marine water: 0.1 mg/l
Sediment fresh water: 5,27 mg/kg
Fresh water: 1 mg/l
Intermittent releases: 2.3 mg/L
(CAS: 38294-64-3) 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
Fresh water: 0.011 mg/L
Fresh water (intermittent releases): 0.111 mg/L
Marine water: 0.001 mg/L
STP: 10 mg/L
Sediment (fresh water): 4320 mg/kg sediment dw
Sediment (marine water): 432 mg/kg sediment dw
Soil: 864 mg/kg soil dw
Secondary poisoning: 1 mg/kg food
(CAS: 2855-13-2) 3-aminomethyl-3,5,5-trimethylcyclohexylamine
Fresh water: 0.06 mg/L
Fresh water (intermittent releases): 0.23 mg/L
Marine water: 0.006 mg/L
STP: 3.18 mg/L
Sediment (fresh water): 5.784 mg/kg sediment dw
Sediment (marine water): 0.578 mg/kg sediment dw
Soil: 1.121 mg/kg soil dw

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**Additional information:** The valid lists during production were used as a basis.

**8.2 Exposure controls**

**8.2.1. Appropriate engineering controls** No other recommendations, see chapter 7.

**Individual protection measures, such as personal protective equipment**
**General protective and hygienic measures:**
Keep away from food, beverages and pet food.
Avoid contact with the eyes and skin.
Immediately remove all soiled and contaminated clothing.
Wash your hands before breaks and at the end of your work shift.
**Respiratory protection:**
Not necessary if the room is well-ventilated.


Use suitable respiratory protective device in case of insufficient ventilation.

**Hand protection**
Use gloves made from durable material (e.g. Nitril) - possibly lined - for greater comfort.


Protective gloves resistant to chemicals (standard EN 374-1)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material should be made considering the penetration times, rates of diffusion and the degradation
**Material of gloves**
Butyl rubber, BR
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material. Further marks of quality vary from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to application.
**Penetration time of glove material**
The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.
The breakthrough times according to EN 374 Part III do not always apply under real conditions. A maximum usage time corresponding to 50% of the breakthrough time is recommended.
**Eye/face protection**


Tightly sealed goggles (EN 166).

**Body protection:**


Protective work clothing

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**Environmental exposure controls**
Prevent the product from entering into drains, surface, groundwater and soil.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **General Information** | |
| **Physical state** | Liquid |
| **Colour:** | yellowish |
| **Odour:** | Amine-like |
| **Odour threshold:** | Not determined |
| **Melting point/freezing point:** | Not determined |
| **Boiling point or initial boiling point and boiling range** | Not specified |
| **Flammability** | Not applicable |
| **Lower and upper explosion limit** | |
| **Lower:** | 1.3 Vol % |
| **Upper:** | 13 Vol % |
| **Flash point:** | >100 °C |
| **Auto-ignition temperature:** | 230 °C |
| **Decomposition temperature:** | Not determined |
| **pH** | Not determined |
| **Viscosity:** | |
| **Kinematic viscosity** | Not determined |
| **Dynamic at 20 °C:** | 110 mPas (DIN EN ISO 3219) |
| **Solubility** | |
| **water:** | Partly soluble. |
| **Partition coefficient n-octanol/water (log value)** | Not determined |
| **Vapour pressure at 20 °C:** | 0.1 hPa (CAS: 100-51-6 Benzyl alcohol) |
| **Vapour pressure at 50 °C:** | 0.7 hPa |
| **Density and/or relative density** | |
| **Density at 20 °C:** | 1.01 g/cm³ (DIN EN ISO 2811-2) |
| **Relative density** | Not determined |
| **Vapour density** | Not determined |

### 9.2 Other information

| | |
|---|---|
| **Appearance:** | |
| **Form:** | Fluid |
| **Important information on protection of health and environment, and on safety.** | |
| **Ignition temperature:** | Product is not selfigniting. |
| **Explosive properties:** | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| **Solvent content:** | |
| **Organic solvents:** | 38.0 % |
| **VOC (EC)** | 415.0 g/l |
| **Solids content:** | 100.0 % |
| **Change in condition** | Not applicable |
| **Fusion temperature / range:** | Not applicable |
| **Oxidising properties** | Not oxidising |

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| | |
|---|---|
| **Evaporation rate** | Not determined |
| **Information with regard to physical hazard classes** | |
| **Explosives** | Void |
| **Flammable gases** | Void |
| **Aerosols** | Void |
| **Oxidising gases** | Void |
| **Gases under pressure** | Void |
| **Flammable liquids** | Void |
| **Flammable solids** | Void |
| **Self-reactive substances and mixtures** | Void |
| **Pyrophoric liquids** | Void |
| **Pyrophoric solids** | Void |
| **Self-heating substances and mixtures** | Void |
| **Substances and mixtures, which emit flammable gases in contact with water** | Void |
| **Oxidising liquids** | Void |
| **Oxidising solids** | Void |
| **Organic peroxides** | Void |
| **Corrosive to metals** | Void |
| **Desensitised explosives** | Void |

## SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.
**10.2 Chemical stability**
**Thermal decomposition / conditions to be avoided**
No decomposition occurs if used according to specifications.
**10.3 Possibility of hazardous reactions**
Reacts with alcohols, amines, aqueous acids and alkalis.
Exothermic polymerisation
**10.4 Conditions to avoid** No further relevant information available.
**10.5 Incompatible materials** No further relevant information available.
**10.6 Hazardous decomposition products** Irritant gases/vapours

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## SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
**Acute toxicity** Harmful if swallowed.

| **LD/LC50 values relevant for classification:** | | |
|---|---|---|
| **ATE (Acute Toxicity Estimates)** | | |
| Oral | LD50 | >1,164-2,467 mg/kg |
| Dermal | LD50 | >11,000-22,000 mg/kg |

| **CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine** | | |
|---|---|---|
| Oral | LD50 | 1,030 mg/kg (ATE) |
| | | 1,030 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rabbit) |

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| | | |
|---|---|---|
| Inhalative | LC50(4h) | 5,010 mg/m³ air (rat) |
| **CAS: 9046-10-0 alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethandiyl))** | | |
| Oral | LD50 | 2880 mg/kg (rat) |
| Dermal | LD50 | 2.980 mg/kg (rabbit) |
| **CAS: 2579-20-6 1,3-Cyclohexanedimethanamine** | | |
| Oral | LD50 | 700 mg/kg bw (rat) |
| Dermal | LD50 | 1700 mg/kg (rabbit) |
| **CAS: 100-51-6 benzyl alcohol** | | |
| Oral | LD50 | 1,200 mg/kg (ATE) |
| | | 1,620 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rabbit) |
| Inhalative | LC50(4h) | 4,178 mg/m³ air (rat) |
| | LC50(14d) | 5.1 mg/l (freshwater fish) |

**Specific symptoms in biological assay:**
**Skin corrosion/irritation** Causes severe skin burns and eye damage.
**Serious eye damage/irritation** Causes serious eye damage.
**Respiratory or skin sensitisation** May cause an allergic skin reaction.
**Germ cell mutagenicity** Based on available data, the classification criteria are not met.
**Carcinogenicity** Based on available data, the classification criteria are not met.
**Reproductive toxicity** Based on available data, the classification criteria are not met.
**STOT-single exposure** Based on available data, the classification criteria are not met.
**STOT-repeated exposure** Based on available data, the classification criteria are not met.
**Aspiration hazard** Based on available data, the classification criteria are not met.
**Additional toxicological information:**
**Repeated dose toxicity** Based on available data, the classification criteria are not met.
**11.2 Information on other hazards**
**Endocrine disrupting properties**
The product 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 higher than 0,1%.

None of the ingredients is listed.

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## SECTION 12: Ecological information

**12.1 Toxicity**

| | |
|---|---|
| **Aquatic toxicity:** | |
| **CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine** | |
| LC50 (96h) | 110 mg/l (Leuciscus Idus) |
| NOEC (21d) | 3 mg/l (Daphnia magna) |
| **CAS: 9046-10-0 alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethandiyl))** | |
| EC50 (72h) | 15 mg/l (Pseudokirchn subcapitata) |

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| | |
|---|---|
| EC50 (48h) | 80 mg/l (daphnia magna) |
| LC50 (96h) | >15 mg/l (Oncorhynchus mykiss) |
| NOEC(72h) | 100 mg/l (Skeletonema costatum) |
| **CAS: 38294-64-3 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine** | |
| EL50 | 11.1mg/l (daphnia magna) |
| LL50 | 70.7mg/l (fish) |
| **CAS: 2579-20-6 1,3-Cyclohexanedimethanamine** | |
| EC50, 48 h | 33.1 mg/L (freshwater invertebrates) |
| ErC50, 72 h | 56.7 mg/L (algae) |
| LC50, 96 h | 130 mg/L (fish) |
| **CAS: 100-51-6 benzyl alcohol** | |
| EC50 (72h) | 759 mg/l (algae) |
| EC50 (48h) | 230 mg/l (Daphnia magna) |
| LC50 (96h) | >100 mg/l (Pimephales promelas) |
| EC10(21d) | 54 mg/l (freshwater invertebrates) |
| NOEC(72h) | 310 mg/l (algae) |

**12.2 Persistence and degradability** No further relevant information available.
**12.3 Bioaccumulative potential** No further relevant information available.
**12.4 Mobility in soil** No further relevant information available.
**12.5 Results of PBT and vPvB assessment**
The product does not contain ingredients that are considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative at levels of 0.1% or higher according to REACH, Annex XIII.
**PBT:** Not applicable.
**vPvB:** Not applicable.
**12.6 Endocrine disrupting properties**
The product does not contain substances included in the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties or has not been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or higher than 0.1%.
For information on endocrine disruption properties, see sections 2.3 & 11.2.
**12.7 Other adverse effects**
**Remark:** Harmful to fish
**Additional ecological information:**
**General notes:**
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Must not reach sewage water or drainage ditch undiluted or unneutralised.



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## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**
**Recommendation**

Dispose according to National Regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.
**Waste disposal key:**
08 04 09 - waste adhesives and sealants containing organic solvents or other dangerous substances.

| European waste catalogue | |
|---|---|
| HP6 | Acute Toxicity |
| HP8 | Corrosive |
| HP13 | Sensitising |
| HP14 | Ecotoxic |

**Uncleaned packaging:**
**Recommendation:**
Disposal must be made according to official regulations.
Packaging may be reused or recycled after cleaning.

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## SECTION 14: Transport information

**14.1 UN number or ID number**
**ADR, IMDG, IATA** UN2735
**14.2 UN proper shipping name**
**ADR** 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-)
**IMDG, IATA** AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-)

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**14.3 Transport hazard class(es)**

**ADR, IMDG, IATA**

| | |
|---|---|
| **Class** | 8 Corrosive substances. |
| **Label** | 8 |
| **14.4 Packing group** | |
| **ADR, IMDG, IATA** | II |
| **14.5 Environmental hazards:** | |
| **Marine pollutant:** | No |
| **14.6 Special precautions for user** | Warning: Corrosive substances. |
| **Hazard identification number (Kemler code):** | 80 |
| **EMS Number:** | F-A,S-B |
| **Segregation groups** | (SGG18) Alkalis |
| **Stowage Category** | A |
| **Segregation Code** | SG35 Stow "separated from" SGG1-acids |
| **14.7 Maritime transport in bulk according to IMO instruments** | Not applicable. |

**Transport/Additional information:**

**ADR**

| | |
|---|---|
| **Limited quantities (LQ)** | 1L |

Limited Quantity Marking.

| | |
|---|---|
| **Excepted quantities (EQ)** | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| **Transport category** | 2 |
| **Tunnel restriction code** | E |

**IMDG**

| | |
|---|---|
| **Limited quantities (LQ)** | 1L |

Limited Quantity Marking.

| | |
|---|---|
| **Excepted quantities (EQ)** | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| **UN "Model Regulation":** | UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, REACTION PRODUCTS WITH 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE, POLY[OXY(METHYL-1,2-ETHANEDIYL)], α-(2- |

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AMINOMETHYLETHYL)-.OMEGA.-(2-AMINOMETHYLETHOXY)-), 8, II

* 
## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
REACH Regulation 1907/2006/EC
Regulation (EU) 2020/878
CLP Regulation 1272/2008/EC
Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.
Council Directive 94/33/EC on the protection of young people at work, as ammended.
Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended

**Directive 2012/18/EU**
**Named dangerous substances - ANNEX I**
According to EU directives, the continuous filament glass fibers contained in these products are not classified as carcinogens.
Continuous filament glass fibers do not fall within the scope of Directive (EC) 1272/2008 as they are not "randomly oriented fibers".
None of the ingredients are listed.
**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.

**REGULATION (EU) 2019/1148**

**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**
None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
None of the ingredients is listed.

**National regulations:** None

**Information about limitation of use:**
Employment restrictions concerning pregnant and lactating women must be observed.
Employment restrictions concerning juveniles must be observed.

**Other regulations, limitations and prohibitive regulations**

**Substances of very high concern (SVHC) according to REACH, Article 57**
It doesn't contain substances of very high concern (SVHC).

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**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**
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.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

**Training hints**
Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

| **Classification according to Regulation (EC) No 1272/2008** | |
|---|---|
| Acute toxicity - oral<br>Skin corrosion/irritation<br>Serious eye damage/irritation<br>Skin sensitisation<br>Hazardous to the aquatic environment - long-term (chronic) aquatic hazard | The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. |

**Department issuing SDS:**

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**Date of previous version:** 25.04.2023
**Version number of previous version:** 2

**Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Skin Sens. 1B: Skin sensitisation – Category 1B
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3