

**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

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** KLB-SYSTEM EPOXID EP 211 ESD Component B**1.2 Relevant identified uses of the substance or mixture and uses advised against****Product category** PC9a Coatings and paints, thinners, paint removers**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

**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. 1B      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.

(Contd. on page 2)

EN

**Safety data sheet**  
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**EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 11.09.2025

Version number 3 (replaces version 2)

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(Contd. of page 1)

**Hazard pictograms:**

GHS05 GHS07

**Signal word:** Danger**Hazard-determining components of labelling:**

m-phenylenebis(methylamine)

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

Benzyl alcohol

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.

**Additional information:** Contains biocides: ethanol**2.3 Other hazards****Results of PBT and vPvB assessment**

The product does not contain ingredients that are considered either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**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%.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 3)

**Safety data sheet**  
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**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

**Trade name:** KLB-SYSTEM EPOXID EP 211 ESD Component B

(Contd. of page 2)

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

CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38-XXXX	benzyl alcohol ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1B, H317 ATE: LD50 oral: 1,200 mg/kg	10-25%
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50-XXXX	m-phenylenebis(methylamine) ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1B, H317; Aquatic Chronic 3, H412, EUH071	10-<25%
CAS: 2855-13-2 EINECS: 220-666-8 Index number: 612-067-00-9 Reg.nr.: 01-2119514687-32-XXXX	3-aminomethyl-3,5,5-trimethylcyclohexylamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Sens. 1A, H317 ATE: LD50 oral: 1,030 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	10-25%
CAS: 9046-10-0 Reg.nr.: 01-2119557899-12-XXXX	alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethandiyl)) ⚠ Skin Corr. 1B, H314; Aquatic Chronic 3, H412	10-<25%
CAS: 38294-64-3 NLP: 500-101-4 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 ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Skin Sens. 1, H317; Aquatic Chronic 3, H412	10-<25%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX	ethanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	2.5-≤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 with 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 and for certainty contact a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Remove contaminated clothing.

In case of discomfort, consult a doctor.

(Contd. on page 4)

EN

**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

**Trade name:** KLB-SYSTEM EPOXID EP 211 ESD Component B

(Contd. of page 3)

**After eye contact:**

Immediately rinse the eyes with plenty of water, alternately lifting the upper and lower eyelids.

Check and remove contact lenses if any.

Continue to rinse for at least 10 minutes.

Seek medical attention if irritation occurs.

Avoid strong water jet-risk of cornea damage, consult a doctor.

**After swallowing:**

Immediately rinse the mouth with water.

Call a doctor or poison control centre immediately.

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

No further relevant information available.

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

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

**5.3 Advice for firefighters**

**Protective equipment:** Use of protective clothes and respiratory device is being recommended in case of fire.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

Avoid contact with skin and eyes.

Avoid inhalation of vapors or spray.

**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.

Ensure adequate ventilation.

**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**

Ensure good ventilation/exhaustion at the workplace

Keep the container tightly closed.

Avoid spray formation.

Do not eat, drink or smoke when using this product.

Avoid contact with eyes, hands and clothing.

Wash your hands before each break and after finishing work.

(Contd. on page 5)

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

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Version number 3 (replaces version 2)

Revision: 11.09.2025

**Trade name:** KLB-SYSTEM EPOXID EP 211 ESD Component B

(Contd. of page 4)

**Information about fire - and explosion protection:** No special measures required.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:**

Store away from acids, alkaline and oxidizing substances.

**Further information about storage conditions:** Keep container tightly sealed.

**7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

**CAS: 64-17-5 ethanol**

WEL (Great Britain) Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

**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

Short-term exposure, systemic effects, inhalation: 27 mg/m<sup>3</sup>

Long-term exposure, systemic effects, inhalation: 5.4 mg/m<sup>3</sup>

Workers:

Short-term exposure, systemic effects, inhalation: 110 mg/m<sup>3</sup>

Long-term exposure, systemic effects, inhalation: 22 mg/m<sup>3</sup>

Short-term exposure, systemic effects, dermal: 40 mg/kg

Long-term exposure, systemic effects, dermal: 8 mg/kg

(CAS: 2855-13-2) 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Workers:

Inhalation - Long-term exposure, Local effects: 0.073 mg/m<sup>3</sup>

Inhalation - Acute/short-term exposure, Local effects: 0.073 mg/m<sup>3</sup>

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

(CAS: 1477-55-0) meta-phenylenedis(methylamine)

Employees:

Long-term, systemic effects, by inhalation: 1.2 mg/m<sup>3</sup>

Long-term, systemic effects, dermal: 0.33 mg/kg bw/day

(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/m<sup>3</sup>

Dermal - Long-term exposure, Systemic effects: 0.14 mg/kg bw/d

Consumers:

Inhalation - Long-term exposure, Systemic effects: 74 µg/m<sup>3</sup>

Dermal - Long-term exposure, Systemic effects: 50 µg/kg bw/d

Oral - Long-term exposure, Systemic effects: 50 µg/kg bw/d

(CAS:64-17-5) Ethanol

Employees:

Inhalation - Long-term exposure, Systemic effects: 380 mg/m<sup>3</sup>

Consumers:

(Contd. on page 6)

**Safety data sheet**  
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**EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

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Version number 3 (replaces version 2)

Revision: 11.09.2025

**Trade name:** KLB-SYSTEM EPOXID EP 211 ESD Component B

(Contd. of page 5)

Inhalation - Long-term exposure, Systemic effects: 114 mg/m<sup>3</sup>**PNECs**

(CAS: 100-51-6) Benzyl alcohol

Fresh water: 1 mg/L

Fresh water (intermittent releases): 2.3 mg/L

Marine water: 0.1 mg/L

STP: 39 mg/L

Sediment (fresh water): 5.27 mg/kg sediment dw

Sediment (marine water): 0.527 mg/kg sediment dw

Soil: 0.456 mg/kg soil dw

(CAS: 1477-55-0) meta-phenylenedis(methylamine)

Soil: 2,44 mg/kg

Wastewater treatment plant: 10 mg/L

Marine water sediment: 1.24 mg/kg

Marine water: 0.009 mg/L

Fresh water (intermittent releases): 0.152 mg/L

Fresh

water sediment: 12.4 mg/kg

Fresh water: 0.094 mg/l

(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

(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: 64-17-5) ethanol

Fresh water: 0.96 mg/l

Marine water: 0.79 mg/l

Sediment (fresh water): 3.6 mg/kg dw

Intermittent releases: 2.75 mg/L

Oral: 0.72 mg/kg dw

**Additional information:** The valid lists during production were used as a basis.**8.2 Exposure controls****8.2.1. Appropriate engineering controls**

Take appropriate protective measures with regard to the handling of chemicals and mixtures.

(Contd. on page 7)

**Safety data sheet**  
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**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

**Trade name:** KLB-SYSTEM EPOXID EP 211 ESD Component B

(Contd. of page 6)

**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Keep away from food, beverages and pet food.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

**Hand protection**

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 - 0,7 mm

Nitrile rubber, NBR- 0,4 mm

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

**Environmental exposure controls**

Prevent the product from entering into drains, surface, groundwater and soil.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Physical state**

Liquid

**Colour:**

Yellowish

(Contd. on page 8)

EN

**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

**Trade name:** KLB-SYSTEM EPOXID EP 211 ESD Component B

(Contd. of page 7)

<b>Odour:</b>	Amine-like
<b>Odour threshold:</b>	Not determined
<b>Melting point/freezing point:</b>	Not determined
<b>Boiling point or initial boiling point and boiling range</b>	Not specified
<b>Flammability</b>	Not applicable
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	1.3 Vol %
<b>Upper:</b>	13 Vol %
<b>Flash point:</b>	64 °C
<b>Auto-ignition temperature:</b>	435 °C
<b>Decomposition temperature:</b>	Not determined
<b>pH</b>	Not determined
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not determined
<b>Dynamic at 20 °C:</b>	100-200 mPas (DIN EN ISO 3219)
<b>Solubility</b>	
<b>water:</b>	Not determined
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined
<b>Vapour pressure at 20 °C:</b>	0.1 hPa
<b>Vapour pressure at 50 °C:</b>	0.7 hPa
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	1.02 g/cm <sup>3</sup> (DIN EN ISO 2811-2)
<b>Relative density</b>	Not determined
<b>Vapour density</b>	Not determined

**9.2 Other information****Appearance:****Form:** Liquid**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:****VOC (EC)** 30.3 g/l**Change in condition** Not applicable**Fusion temperature / range:** Not applicable**Oxidising properties** Not oxidising**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

(Contd. on page 9)

**Safety data sheet**  
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**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

**Trade name:** KLB-SYSTEM EPOXID EP 211 ESD Component B

(Contd. of page 8)

<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

**10.1 Reactivity** Stable under normal conditions

**10.2 Chemical stability** The product is stable in normal conditions of use and storage.

**Thermal decomposition / conditions to be avoided**

No decomposition occurs if used according to specifications.

**10.3 Possibility of hazardous reactions** Reacts with acids, alkalis and oxidising agents.

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials**

Acids

Alkaline substances

Oxidizing materials

**10.6 Hazardous decomposition products** Irritant gases/vapours

### 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	>1,389-3,473 mg/kg
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**CAS: 1477-55-0 m-phenylenebis(methylamine)**

Oral	LD50	930 mg/kg (rat)
Dermal	LD50	3.100 mg/kg (rabbit)
Inhalative	LC50	1,340 mg/m <sup>3</sup> (rat)

**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)
Inhalative	LC50(4h)	5.010 mg/m <sup>3</sup> (rat)

**CAS: 9046-10-0 alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethandiyl))**

Oral	LD50	480 mg/kg (rat)
Dermal	LD50	2,090 mg/kg (rabbit)

**CAS: 64-17-5 ethanol**

Oral	LD50	10,470 mg/kg bw (rat)
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(Contd. on page 10)

**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

**Trade name:** KLB-SYSTEM EPOXID EP 211 ESD Component B

(Contd. of page 9)

Dermal	LD50	15,800 mg/kg bw (rabbit)
Inhalative	LC50/4 h (vapour)	50,000 mg/m <sup>3</sup> (rat)
<b>CAS: 100-51-6 benzyl alcohol</b>		
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/m <sup>3</sup> 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.

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****CAS: 1477-55-0 m-phenylenebis(methylamine)**

EC50 (72h)	12 mg/l (ssu)
EC50 (48h)	15.2 mg/l (Daphnia)
LC50 (96h)	75 mg/l (fish)
NOEC (21d)	4.7 mg/l (Daphnia)

**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 (daphnia magna)
EC50 (48h)	80 mg/l (daphnia magna)

(Contd. on page 11)

**Safety data sheet**  
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**EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

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Version number 3 (replaces version 2)

Revision: 11.09.2025

**Trade name:** KLB-SYSTEM EPOXID EP 211 ESD Component B

(Contd. of page 10)

**CAS: 64-17-5 ethanol**

EC50	275mg/l (alf) 5.012mg/l (inm) 857mg/l (freshwater invertebrates)
LC50	11.200 mg/l (fish)
NOEC	1.900mg/l (alm) 79mg/l (inm) 9.6mg/l (freshwater invertebrates)
NOEC(104d)	250mg/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 that are not recognised as having endocrine disrupting properties under Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is it included in the list of candidate substances of very high concern under Article 59 of the EU Regulation for endocrine disrupting properties.

**12.7 Other adverse effects**

**Remark:** Harmful to fish

**Additional ecological information:****General notes:**

Must not reach sewage water or drainage ditch undiluted or unneutralised.

The product contains materials that are harmful to the environment.

Harmful to aquatic organisms

EN

(Contd. on page 12)

**Safety data sheet**  
**complying with Regulation 1907/2006/EC (REACH Regulation),**  
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Printing date 11.09.2025

Version number 3 (replaces version 2)

Revision: 11.09.2025

**Trade name:** KLB-SYSTEM EPOXID EP 211 ESD Component B

(Contd. of page 11)

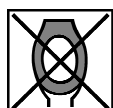
### SECTION 13: Disposal considerations

#### 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.

### 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. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane)

IMDG, IATA

AMINES, LIQUID, CORROSIVE, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane)

#### 14.3 Transport hazard class(es)

ADR, IMDG, IATA



Class

8 Corrosive substances.

Label

8

#### 14.4 Packing group

ADR, IMDG, IATA

II

(Contd. on page 13)

EN

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**Trade name:** KLB-SYSTEM EPOXID EP 211 ESD Component B

(Contd. of page 12)

**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**

D

**Stowage Code**

SW1 Protected from sources of heat.

SW2 Clear of living quarters.

**Handling Code**

H2 Keep as cool as reasonably practicable

**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

Maximum net quantity per inner packaging: 30 ml

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

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

**UN "Model Regulation":**

UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S.

(2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE), 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 amended.

(Contd. on page 14)

EN

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Revision: 11.09.2025

**Trade name:** KLB-SYSTEM EPOXID EP 211 ESD Component B

(Contd. of page 13)

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  
**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

**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).

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

### 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

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- 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.
- H332 Harmful if inhaled.
- H412 Harmful to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

#### 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.

(Contd. on page 15)

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Revision: 11.09.2025

**Trade name:** KLB-SYSTEM EPOXID EP 211 ESD Component B


(Contd. of page 14)

**Classification according to Regulation (EC) No 1272/2008**

Acute toxicity - oral  
 Skin corrosion/irritation  
 Serious eye damage/irritation  
 Skin sensitisation  
 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:**

**SUST**  SUSTCHEM S.A.  
**CHEM**  
 CONSULTING REACH & Chemical Services Department  
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**Date of previous version:** 29.06.2023

**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  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 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

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