

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 216 Universal 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

Hardener

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. 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
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 216 Universal Component B

(Contd. of page 1)

Hazard pictograms:

GHS05 GHS07

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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Benzyl alcohol

m-phenylenebis(methylamine)

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

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**

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)

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 216 Universal Component B

(Contd. of page 2)

Ingredients according Regulation (EU) 2020/878:

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 %	25-50%
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	25-50%
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: 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: 9046-10-0 EC number: 618-561-0 Reg.nr.: 01-2119557899-12-XXXX	Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	2,5-<5%

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:

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

Supply fresh air and for certainty contact a doctor.

After skin contact:

Remove contaminated clothing. Rinse the exposed area with water and follow up with soap if available. If persistent irritation occurs, seek medical attention.

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.

(Contd. on page 4)

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 216 Universal Component B

(Contd. of page 3)

After swallowing:

The affected person requires a lot of water and fresh air. Call a physician immediately.

Call a doctor 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:**

CO₂, powder or water spray.

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: 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.

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.

Ensure adequate ventilation.

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**

Ensure good ventilation/exhaustion at the workplace

Prevent the formation of aerosols.

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

Avoid contact with skin and eyes.

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:**

Keep the containers closed.

Store in cool, dry conditions

Information about storage in one common storage facility:

Store separately from alcohols, amines, acidic and alkaline solutions.

(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)

Printing date 11.09.2025

Version number 3 (replaces version 2)

Revision: 11.09.2025

Trade name: KLB-SYSTEM EPOXID EP 216 Universal Component B

(Contd. of page 4)

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:

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

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: 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

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

Employees:

Long-term, systemic effects, by inhalation: 1.2 mg/m³

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

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

Fresh water: 0.06 mg/L

(Contd. on page 6)

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 216 Universal Component B

(Contd. of page 5)

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: 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

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.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not breathe vapours or mists.

Respiratory protection:

Not necessary if the room is well-ventilated.



In case of insufficient ventilation, use a respirator.

Hand protection

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



Suitable chemical resistant safety gloves (EN 374)

(Contd. on page 7)

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 216 Universal Component B

(Contd. of page 6)

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.

Not suitable are gloves made of the following materials: Leather gloves

Eye/face protection

Tightly sealed goggles (EN 166).

Body protection:

Protective work clothing

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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 determined
Flammability	Not applicable
Lower and upper explosion limit	
Lower:	1.3 Vol %
Upper:	13 Vol %
Flash point:	>100 °C
Auto-ignition temperature:	435 °C
Decomposition temperature:	Not determined
pH	Alkaline
	Not determined
Viscosity:	
Kinematic viscosity	Not determined
Dynamic at 20 °C:	300 mPas (DIN EN ISO 3219)

(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 216 Universal Component B

(Contd. of page 7)

Solubility**water:**

Partly miscible

Not determined

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:**1.02 g/cm³ (DIN EN ISO 2811-2)**Relative density**

Not determined

Vapour density

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)**

412.0 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

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.

(Contd. on page 9)

- 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 216 Universal Component B

(Contd. of page 8)

10.2 Chemical stability**Thermal decomposition / conditions to be avoided**

No decomposition occurs if used according to specifications.

10.3 Possibility of hazardous reactions

Exothermic polymerisation

Reacts with alcohols, amines, aqueous acids and alkalis.

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 >854-1,790 mg/kg

Inhalative ATEmix (vapours) >44-110 mg/l (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/m³ air (rat)**CAS: 1477-55-0 m-phenylenebis(methylamine)**

Oral LD50 930 mg/kg (rat)

Dermal LD50 3.100 mg/kg (rabbit)

Inhalative ATEmix (vapours) 1,340 mg/m³ (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: 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.

(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 216 Universal Component B

(Contd. of page 9)

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

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

EC50 15 mg/l (daphnia magna)

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 70.7 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 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.

(Contd. on page 11)

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 216 Universal Component B

(Contd. of page 10)

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.

It must not enter ground water, be discharged into the aquatic environment or into the sewers.

Dangerous for drinking water even when small quantities are released into the ground.

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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.

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 POLYAMINES, LIQUID, CORROSIVE, N.O.S.
 (ISOPHORONEDIAMINE, 4,4'-Isopropylidenediphenol,
 oligomeric reaction products with 1-chloro-2,3-
 epoxypropane, reaction products with 3-aminomethyl-
 3,5,5-trimethylcyclohexylamine)

IMDG, IATA

POLYAMINES, LIQUID, CORROSIVE, N.O.S.
 (ISOPHORONEDIAMINE, 4,4'-Isopropylidenediphenol,
 oligomeric reaction products with 1-chloro-2,3-
 epoxypropane, reaction products with 3-aminomethyl-
 3,5,5-trimethylcyclohexylamine)

(Contd. on page 12)

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 216 Universal Component B

(Contd. of page 11)

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) Alkalies
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
 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

(Contd. on page 13)

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 216 Universal Component B

UN "Model Regulation":

(Contd. of page 12)

UN 2735 POLYAMINES, LIQUID, CORROSIVE,
 N.O.S. (ISOPHORONEDIAMINE, 4,4'-
 ISOPROPYLIDENEDIPHENOL, OLIGOMERIC
 REACTION PRODUCTS WITH 1-CHLORO-2,3-
 EPOXYPROPANE, REACTION PRODUCTS WITH 3-
 AMINOMETHYL-3,5,5-
 TRIMETHYLCYCLOHEXYLAMINE), 8, II

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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 None of the ingredients is 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

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.

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(Contd. on page 14)

Safety data sheet
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Revision: 11.09.2025

Trade name: KLB-SYSTEM EPOXID EP 216 Universal Component B

(Contd. of page 13)

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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.
 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.

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:



SUSTCHEM S.A.
 REACH & Chemical Services Department
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Date of previous version: 03.07.2023

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. 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

(Contd. on page 15)

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Revision: 11.09.2025

Trade name: KLB-SYSTEM EPOXID EP 216 Universal Component B

(Contd. of page 14)

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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