

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 51 RAPID S 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.M.I. 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:**

GHS08 health hazard

Repr. 2 H361f Suspected of damaging fertility.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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2.2 Label elements**Labelling according to Regulation EC No 1272/2008 CLP:**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:

GHS05 GHS07 GHS08 GHS09

Signal word: Danger

Hazard-determining components of labelling:

m-phenylenebis(methylamine)
 4-tert-butylphenol
 trimethylhexane-1,6-diamine
 Benzyl alcohol

Hazard statements:

H302+H332 Harmful if swallowed or if inhaled.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H361f Suspected of damaging fertility.
 H411 Toxic 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.
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 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

CAS: 98-54-4 4-tert-butylphenol

List I

* **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 : 98-54-4 4-tert-butylphenol

M-factor = 1

CAS: 98-54-4 EINECS: 202-679-0 Index number: 604-090-00-8 Reg.nr.: 01-2119489419-21-XXXX	4-tert-butylphenol ⚠ Repr. 2, H361f; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315 Substance identified as having endocrine disrupting properties (I)	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: 25620-58-0 EINECS: 247-134-8 Reg.nr.: 01-2119560598-25-XXXX	trimethylhexane-1,6-diamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	5-<10%
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%

SVHC

CAS: 98-54-4 4-tert-butylphenol

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:**

Get medical attention 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.

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.

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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.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin and eyes.

Avoid inhalation of vapors or spray.

Ensure adequate ventilation.

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:

Absorb with liquid-binding material: (sand, diatomite, acid binders, universal binders and 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

Avoid contact with skin and eyes.

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

Ensure good ventilation/exhaustion at the workplace

Prevent the formation of aerosols.

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: Not required.

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

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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: 98-54-4) 4-tert-butylphenol

Employees:

Long-term exposure, systemic effects, by inhalation: 0.5 mg/m³

Long-term exposure, systemic effects, dermal: 0.071 mg/kg

Consumers:

Long-term exposure, systemic effects, dermal: 0.026 mg/kg

Long-term exposure, systemic effects, via inhalation: 0.09 mg/m³

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

Employees:

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

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

PNECs

(CAS: 100-51-6) benzyl alcohol

Soil: 0.456 mg/kg

Sewage treatment plant: 39 mg/l

Marine water sediment: 0.527 mg/kg

Marine water: 0.1 mg/l

Freshwater sediment: 5.27 mg/kg

Freshwater: 1 mg/l

(CAS: 98-54-4) 4-tert-butylphenol

Soil: 0,25 mg/kg

Waste water treatment plant: 1,5 mg/l

Seawater sediment: 0,027 mg/kg

Seawater: 0,001 mg/l

Fresh water (intermittent releases): 0,048 mg/L

Freshwater sediment: 5,27 mg/kg

Fresh water: 0,01 mg/l

(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.

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Avoid contact with the eyes and skin.

Wash your hands before breaks and at the end of your work shift.

Immediately remove all soiled and contaminated clothing.

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.



Wear suitable gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material should be made considering the penetration times, rates of diffusion and the degradation

Material of gloves

Butyl-rubber (BR), thickness: 0.7 mm

Nitrile rubber (NBR): thickness = 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

* **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

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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
	Not Flammable
Auto-ignition temperature:	365 °C
Decomposition temperature:	Not determined
pH	Not determined
Viscosity:	
Kinematic viscosity	Not determined
Dynamic at 20 °C:	400 mPas (DIN EN ISO 3219)
Solubility	
water:	Partly soluble.
	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)
Density and/or relative density	
Density at 20 °C:	1.03 g/cm ³ (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:

VOC (EC) 103.0 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

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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

Exothermic polymerisation

Reacts with acids, alkaline and oxidizing substances.

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

* SECTION 11: Toxicological information

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

Acute toxicity Harmful if swallowed or if inhaled.

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	>2,442-4,058 mg/kg
Inhalative	ATEmix (vapours)	>6.7-13.4 mg/l (rat)

CAS: 98-54-4 4-tert-butylphenol

Oral	LD50	2.990 mg/kg (rat)
Dermal	LD50	2.318 mg/kg (rabbit)

CAS: 1477-55-0 m-phenylenebis(methylamine)

Oral	LD50	930 mg/kg (rat)
Dermal	LD50	>3,100 mg/kg (rabbit)
Inhalative	LC50 (4h)	1.34 mg/l (rat)

CAS: 25620-58-0 trimethylhexane-1,6-diamine

Oral	LD50	900 mg/kg (rat)
------	------	-----------------

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/m ³ air (rat)
	LC50(14d)	5.1 mg/l (freshwater fish)

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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**

The product is classified as Reproductive toxicity Category 2

Suspected of damaging fertility.

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.**CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**

Suspected of causing damage to fertility.

(CAS : 98-54-4) 4-tert-butylphenol

Repr. 2

11.2 Information on other hazards**Endocrine disrupting properties**

CAS: 98-54-4 4-tert-butylphenol

List I

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

EC50 (72h) 20.3 mg/l (Selenastrum capricornutum)

EC50 (48h) 15.2 mg/l (Daphnia)

LC50 (96h) 87.6 mg/l (Oryzias latipes)

NOEC (21d) 4.7 mg/l (Daphnia)

NOEC r (72h) 10.5 mg/l (Selenastrum capricornutum)

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.

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12.6 Endocrine disrupting properties

For information on endocrine disruption properties, see sections 2.3 & 11.2.

12.7 Other adverse effects**Remark:** Toxic for fish**Additional ecological information:****General notes:**

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.

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

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
HP10	Toxic for reproduction
HP13	Sensitising
HP14	Ecotoxic

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.

*

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. (m-phenylenebis(methylamine)), ENVIRONMENTALLY HAZARDOUS

IMDG

AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 4-tert-butylphenol), MARINE POLLUTANT

IATA

AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))

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14.3 Transport hazard class(es)**ADR, IMDG**

Class 8 Corrosive substances.
Label 8

IATA

Class 8 Corrosive substances.
Label 8

14.4 Packing group**ADR, IMDG, IATA****14.5 Environmental hazards:****Marine pollutant:****Special marking (ADR):****14.6 Special precautions for user****Hazard identification number (Kemler code):****EMS Number:****Segregation groups****Stowage Category****Segregation Code****14.7 Maritime transport in bulk according to IMO instruments****Transport/Additional information:****ADR****Limited quantities (LQ)****Excepted quantities (EQ)****Transport category****Tunnel restriction code****IMDG****Limited quantities (LQ)****Excepted quantities (EQ)**

1L
 Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml
 2
 E

1L
 Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

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UN "Model Regulation":

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UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE)), 8, II, ENVIRONMENTALLY HAZARDOUS

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.

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 amended

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.

Seveso category E2 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

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:

Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

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Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

CAS: 98-54-4 | 4-tert-butylphenol

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

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H361f Suspected of damaging fertility.
 H410 Very toxic to aquatic life with long lasting effects.
 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	Expert judgement
Acute toxicity - inhalation Skin corrosion/irritation Serious eye damage/irritation Skin sensitisation Reproductive toxicity 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 CONSULTING SUSTCHEM S.A.
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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

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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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Trade name: KLB-SYSTEM EPOXID EP 51 RAPID S Component B

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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

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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. 1B: Skin sensitisation – Category 1B

Repr. 2: Reproductive toxicity – Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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