

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

Printing date 20.04.2023

Version number 2 (replaces version 1)

Revision: 20.04.2023

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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 28 Construction Resin component A**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 based, 2-component, resin primer, solvent-free.**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

PENETRON HELLAS S.A. G.E.MH. No: 07278001000

50, THRAKOMAKEDONON AV., 136 79 ACHARNES, GREECE

TEL.: +30 210 2448250 - FAX: + 30 210 2476803

Email: info@penetron.gr Site: www.penetron.gr

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:**

GHS09 environment

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



GHS07

Skin Irrit. 2

H315 Causes skin irritation.

Eye Irrit. 2

H319 Causes serious eye irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

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:

GHS07 GHS09

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

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

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oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

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:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

* **SECTION 3: Composition/information on ingredients**

3.2 Mixtures

Description: Mixture: consisting of the following components.

Ingredients according Regulation (EU) 2020/878:

CAS: 1675-54-3 EINECS: 216-823-5 Index number: 603-073-00-2	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	50-100%
CAS: 68609-97-2 EINECS: 271-846-8 Index number: 603-103-00-4 Reg.nr.: 01-2119485289-22-XXXX	oxirane, mono[(C12-14-alkyloxy)methyl] derivs. ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	10-25%
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; Acute Tox. 4, H312; Acute Tox. 4, H332	2.5-10%

Additional information: For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Take affected persons out into the fresh air.

Seek immediate medical advice.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

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

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

In case of skin irritation, consult a physician.

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:

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Seek immediate medical advice.

Never give anything by mouth to an unconscious person.

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. Fight larger fires with water spray.

Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Not known

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

5.3 Advice for firefighters

Protective equipment:

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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.

For information on protective measures, see sections 7 and 8.

Ensure adequate ventilation.

6.1.1 For non-emergency personnel Avoid contact with dripping or leaking material

6.1.2 For emergency responders

Wear protective equipment. Keep unprotected persons away.

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First-aid responders must wear protective clothing, gloves, goggles and respiratory device with filter type A.

6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).

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, eyes and clothing.

Ensure good ventilation/exhaustion at the workplace.

Do not eat, drink or smoke during the usage of the product.

Avoid inhaling vapors.

Wash contaminated clothing before reuse.

Wash hands before each break and after finishing work.

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

7.2 Conditions for safe storage, including any incompatibilities

Storage: Store in cool, dry conditions in well sealed receptacles.

Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

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

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SECTION 8: Exposure controls/personal protection

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs

(CAS: 1675-54-3) 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

Workers:

Inhalation - Long-term exposure, Systemic effects: 4.93 mg/m³

Dermal - Long-term exposure, systemic effects: 0.75 mg/kg bw/d

Consumers:

Inhalation - Long-term exposure, Systemic effects: 0.87 mg/m³

Dermal - Long-term exposure, systemic effects: 89.3 mg/kg bw/d

Oral - Long-term exposure, Systemic effects: 0.5 mg/kg bw/d

(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

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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: 68609-97-2) Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Workers:

Inhalation - Long-term exposure, Systemic effects: 3,6 mg/m³

Dermal - Long-term exposure, Systemic effects: 1 mg/kg bw/d

Consumers:

Inhalation - Long-term exposure, Systemic effects: 0.87 mg/m³

Dermal - Long-term exposure, Systemic effects: 0,5 mg/kg bw/d

Oral - Long-term exposure, Systemic effects: 0,5 mg/kg bw/d

PNECs

(CAS: 1675-54-3) 2,2'-[(1-methylethylidene) bis(4,1phenylenoxymethylene)] bis-oxiranium.

STP: 10 mg/l

Fresh water: 0.006 mg/l

Fresh water (intermittent releases): 0.018 mg/L

Sediment (freshwater): 0.341 mg/kg sediment dw

marine water: 0.001 mg/l

Sediment (marine water): 0.034 mg/kg sediment dw

Soil: 0.065 mg/kg soil dw

Secondary poisoning: 11 mg/kg food

(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: 68609-97-2) Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Fresh water: 0,106 mg/L

Fresh water (intermittent releases): 0,072 mg/L

Marine water: 0,011 mg/L

STP: 10 mg/L

Sediment (fresh water): 307,16 mg/kg sediment dw

Sediment (marine water): 30,72 mg/kg sediment dw

Soil: 1,234 mg/kg soil dw

Additional information: The lists valid during the making were used as 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 foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not eat, drink or smoke while using the product.

Avoid contact with the eyes and skin.

Wash contaminated clothes before reusing them.

Respiratory protection: Not necessary if room is well-ventilated.

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Hand protection

Wear suitable gloves (EN 374)

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies 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 the application.

Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye/face protection

Tightly sealed goggles (EN 166).

Body protection:

Protective work clothing

Environmental exposure controls Prevent enter of the product into drains, surface and groundwater and soil.

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

Physical state	Liquid
Colour:	transparent
Odour:	Characteristic
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:	Not determined
Upper:	Not determined
Flash point:	>100 °C
Auto-ignition temperature:	Not Flammable
Decomposition temperature:	435 °C
pH	Not determined
Viscosity:	
Kinematic viscosity	Not determined

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Dynamic at 20 °C: 700-900 mPas (DIN EN ISO 3219)

Solubility

water:

Not miscible

Partition coefficient n-octanol/water (log value)

Not determined

Vapour pressure:

Not determined

Vapour pressure:

Density and/or relative density

Density at 20 °C:

1.13 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 does not present an explosion hazard.

Solvent content:

VOC (EC)

0,0 %

Cloud point / clarification point:

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 Stable under normal conditions

10.2 Chemical stability Material is stable under normal conditions.

Thermal decomposition / conditions to be avoided Stable at environment temperature.

10.3 Possibility of hazardous reactions Reacts with amines.

10.4 Conditions to avoid No further relevant information available.

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10.5 Incompatible materials No further relevant information available.

10.6 Hazardous decomposition products No dangerous decomposition products known.

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SECTION 11: Toxicological information

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

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	5,000-20,000 mg/kg
Dermal	LD50	11,000-44,000 mg/kg
Inhalative	LC50/4 h (vapour)	110-440 mg/l

CAS: 1675-54-3 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

CAS: 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Dermal	LD50	26,800 mg/kg (rabbit)
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CAS: 100-51-6 Benzyl alcohol

Oral	LD50	1,230 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50(4h)	11 mg/l (ATE)
	LC50	> 4178 mg/m ³ (rat)

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

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

None of the ingredients is listed.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 1675-54-3 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

EC50 (72h)	9.4 mg/l (algae)
EC50 (48h)	1.8 mg/l (Daphnia magna)

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LC50 (96h) 2 mg/l (Leuciscus Idus)

NOEC (21d) 0.3 mg/l (Daphnia magna)

CAS: 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

EC50 (48h) 6.08 mg/l (Daphnia magna)

LC50 (96h) >5,000 mg/l (Leuciscus Idus)

CAS: 100-51-6 Benzyl alcohol

EC50(72h) 770 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****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

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

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

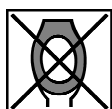
Also poisonous for fish and plankton in water bodies.

The product contains materials that are harmful to the environment.

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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

HP4 Irritant - skin irritation and eye damage

HP13 Sensitising

HP14 Ecotoxic

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

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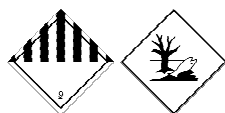
Trade name: KLB-SYSTEM EPOXID EP 28 Construction Resin component A

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SECTION 14: Transport information

14.1 UN number or ID number**ADR, IMDG, IATA**

UN3082

14.2 UN proper shipping name**ADR**3082 ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-
methylethylidene)bis(4,1-phenyleneoxymethylene)]
bisoxirane)**IMDG**ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-
phenyleneoxymethylene)]bisoxirane), MARINE
POLLUTANT**IATA**ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-
phenyleneoxymethylene)]bisoxirane)**14.3 Transport hazard class(es)****ADR, IMDG, IATA****Class**

9 Miscellaneous dangerous substances and articles.

Label

9

14.4 Packing group**ADR, IMDG, IATA**

III

14.5 Environmental hazards:

Environmental Hazardous

Marine pollutant:

Yes

Symbol (fish and tree)

Symbol (fish and tree)

Symbol (fish and tree)

Special marking (ADR):**Special marking (IATA):****14.6 Special precautions for user**Warning: Miscellaneous dangerous substances and
articles.**Hazard identification number (Kemler code):**

90

EMS Number:

F-A,S-F

Stowage Category

A

**14.7 Maritime transport in bulk according to IMO
instruments**

Not applicable.

Transport/Additional information:**ADR****Limited quantities (LQ)**

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category

3

Tunnel restriction code

(-)

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IMDG**Limited quantities (LQ)****Excepted quantities (EQ)****UN "Model Regulation":**

5L

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN 3082 ENVIRONMENTALLY HAZARDOUS
 SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-
 methylethylidene)bis(4,1-phenyleneoxymethylene)]
 bisoxirane), 9, III

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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**

Does not contain named substances.

Substance is not 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.

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National regulations:**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

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

Training hints

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

Classification according to Regulation (EC) No 1272/2008

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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T: +30 210 8252510 | F: +30 210 8252575

W: www.sustchem.gr | E: info@suschem.gr

Version number of previous version: 1**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

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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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Revision: 20.04.2023

Trade name: KLB-SYSTEM EPOXID EP 28 Construction Resin component A

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SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

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

*** Data compared to the previous version altered.**

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