

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

Printing date 04.07.2023

Version number 2 (replaces version 1)

Revision: 04.07.2023

*

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** KLB-SYSTEM EPOXID EP 861 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. 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

*

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation EC No 1272/2008 CLP:**

GHS02 flame

Flam. Liq. 3

H226

Flammable liquid and vapour.



GHS08 health hazard

STOT RE 2

H373

May cause damage to organs through prolonged or repeated exposure.



GHS05 corrosion

Eye Dam. 1

H318

Causes serious eye damage.



GHS09 environment

Aquatic Acute 1

H400

Very toxic to aquatic life.

Aquatic Chronic 1

H410

Very toxic to aquatic life with long lasting effects.



GHS07

(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 04.07.2023

Version number 2 (replaces version 1)

Revision: 04.07.2023

Trade name: KLB-SYSTEM EPOXID EP 861 Component B

(Contd. of page 1)

Acute Tox. 4	H302	Harmful if swallowed.
Skin Irrit. 2	H315	Causes skin irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.

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:

GHS02 GHS05 GHS07 GHS08 GHS09

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

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with ethylenediamine

Xylene

butan-1-ol

1-methoxy-2-propanol

Hazard statements:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P403+P235	Store in a well-ventilated place. Keep cool.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

EN

(Contd. on page 3)

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

Printing date 04.07.2023

Version number 2 (replaces version 1)

Revision: 04.07.2023

Trade name: KLB-SYSTEM EPOXID EP 861 Component B

(Contd. of page 2)

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture: consisting of the following components.

Ingredients according Regulation (EU) 2020/878:

CAS: 72480-18-3 NLP: 500-253-1	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with ethylenediamine Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317	25-50%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3	1-methoxy-2-propanol Flam. Liq. 3, H226; STOT SE 3, H336	10-25%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32-XXXX	Xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-25%
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38-XXXX	butan-1-ol Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	3-<10%

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:

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.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Remove contact lenses and continue rinsing for several minutes

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

After swallowing:

Immediately rinse the mouth with water.

Never give anything by mouth to an unconscious person.

Consult a physician or poison control center.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

(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 04.07.2023

Version number 2 (replaces version 1)

Revision: 04.07.2023

Trade name: KLB-SYSTEM EPOXID EP 861 Component B

(Contd. of page 3)

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 fire with foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

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

5.3 Advice for firefighters

Protective equipment:

During fire-fighting wear suitable respiratory device (SCBA) with a full face-piece operated in positive pressure mode.

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:

Wear protective equipment. Keep unprotected persons away.

Avoid contact with skin and eyes.

Avoid inhalation of vapors.

Ensure adequate ventilation.

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

6.1.2 For emergency responders

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

6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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 and sawdust).

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.

Avoid contact with eyes, hands and clothing.

Ensure adequate ventilation.

Avoid inhaling vapors.

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

Wash your hands thoroughly after handling.

Wash contaminated clothes before reusing them.

Open and handle receptacle with care.

(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 04.07.2023

Version number 2 (replaces version 1)

Revision: 04.07.2023

Trade name: KLB-SYSTEM EPOXID EP 861 Component B

(Contd. of page 4)

Information about fire - and explosion protection:


Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities
Storage: Store in tightly closed containers, in a cool and dry place with good ventilation.

Requirements to be met by storerooms and receptacles: Store in a cool and dry place.

Information about storage in one common storage facility: Store away from oxidizing agents.

Further information about storage conditions:

Keep container tightly sealed.

Protect from heat and direct sunlight.

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: 107-98-2 1-methoxy-2-propanol

IOELV (EU)	Short-term value: 568 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm Skin
WEL (Great Britain)	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm Sk

CAS: 1330-20-7 Xylene

IOELV (EU)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin
WEL (Great Britain)	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV

CAS: 71-36-3 butan-1-ol

WEL (Great Britain)	Short-term value: 154 mg/m ³ , 50 ppm Sk
---------------------	--

DNELs

(CAS: 1330-20-7) Xylene (mixture of isomers)

Workers:

Inhalation - Long-term systemic effect: 221 mg/m³Inhalation - Short-term acute effect: 442 mg/m³Inhalation - Long-term local effect: 221 mg/m³

Dermal - Long-term systemic effect: 212 mg/kg bw/d

Consumers:

Inhalation - Long-term systemic effect: 65.3 mg/m³Inhalation - Short-term acute effect: 260 mg/m³Inhalation - Long-term local effect: 65,3 mg/m³

Dermal - Long-term systemic effect: 125 mg/kg bw/d

Oral - Long-term systemic effect: 12,5 mg/kg bw/d

(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 04.07.2023

Version number 2 (replaces version 1)

Revision: 04.07.2023

Trade name: KLB-SYSTEM EPOXID EP 861 Component B

(Contd. of page 5)

(CAS: 107-98-2) 1-methoxypropan-2-ol

Workers

Short-term, local effects, inhalation: 553,5 mg/m³

Long-term, systemic effects, dermal: 50,6 mg/kg bw/day

Long-term, systemic effects, inhalation: 369 mg/m³

Consumers

Long-term, systemic effects, dermal: 18,1 mg/kg bw/day

Long-term, systemic effects, inhalation: 43,9 mg/m³

Long-term, systemic effects, oral: 3,3 mg/kg bw/day

(CAS: 71-36-3) butan-1-ol

Workers:

Long-term, local effects, inhalation: 310 mg/m³

Consumers:

Long-term, systemic effects, dermal: 3.125 mg/kg bw/day

Long-term, systemic effects, inhalation: 55.357 mg/m³

Long-term, systemic effects, oral: 1.562 mg/kg bw/day

Long-term, local effects, inhalation: 155 mg/m³**PNECs**

(CAS: 1330-20-7) Xylene (mixture of isomers)

Fresh water: 0.327 mg/L

Marine water: 0.327 mg/L

Fresh water: (intermittent releases): 0.327 mg/L

STP: 6.58 mg/L

Sediment (fresh water): 12.46 mg/kg sediment dw

Sediment (marine water): 12.46 mg/kg sediment dw

Soil: 2.31 mg/kg dw

(CAS: 107-98-2) 1-methoxy-2-propan-2-ol

Fresh water: 10 mg/l

Marine water: 1 mg/l

Intermittent use/release: 100 mg/l

Wastewater treatment plant: 100 mg/l

Freshwater sediment: 52,3 mg/kg dry weight (d.w.)

Marine sediment: 5,2 mg/kg dry weight (d.w.)

Soil: 4,59 mg/kg dry weight (d.w.)

(CAS: 71-36-3) butan-1-ol

Fresh water: 0.082 mg/L

Marine water: 0.008 mg/L

Intermittent releases, freshwater: 2.25 mg/L

Freshwater sediment: 0.324 mg/kg sediment dw

Marine water sediment: 0.,032 mg/kg sediment dw

Soil: 0.017 mg/kg soil dw

Sewage treatment plant: 2476 mg/L

Ingredients with biological limit values:**CAS: 1330-20-7 Xylene**

BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
----------------------	--

(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 04.07.2023

Version number 2 (replaces version 1)

Revision: 04.07.2023

Trade name: KLB-SYSTEM EPOXID EP 861 Component B

(Contd. of page 6)

8.2 Exposure controls

8.2.1. Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
 Avoid contact with the eyes and skin.
 Do not breathe vapours or mists.
 Remove contaminated clothes and wash before reusing them.
 Be sure to clean skin thoroughly after work and before breaks.
 Do not eat, drink or smoke while using the product.

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 on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Butyl rubber, BR - 0,7 mm
 Nitrile rubber, NBR- 0,4 mm
 Neoprene

Chemical resistant gloves Viton

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).

(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 04.07.2023

Version number 2 (replaces version 1)

Revision: 04.07.2023

Trade name: KLB-SYSTEM EPOXID EP 861 Component B

(Contd. of page 7)

Body protection:

Chemically resistant protective clothing.



Antistatic boots

Environmental exposure controls Prevent enter of the product into drains, surface and 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
Odour:	Solvent-like
Odour threshold:	Not determined
Boiling point or initial boiling point and boiling range	120 °C
Flammability	Flammable.
Lower and upper explosion limit	
Lower:	1.5 Vol %
Upper:	10.9 Vol %
Flash point:	26 °C
Auto-ignition temperature:	270 °C
Decomposition temperature:	Not determined
pH	Not determined
Viscosity:	
Kinematic viscosity	Not determined
Dynamic at 20 °C:	3,400 mPas (DIN EN ISO 3219)
Solubility	
water:	Not miscible
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure at 20 °C:	12 hPa
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: 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) 593,3 g/l

(Contd. on page 9)

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

Printing date 04.07.2023

Version number 2 (replaces version 1)

Revision: 04.07.2023

Trade name: KLB-SYSTEM EPOXID EP 861 Component B

(Contd. of page 8)

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

Flammable liquid and vapour.

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 acids, alkalis and oxidising agents.

Reacts with amines.

Reacts with alcohols.

Exothermic reaction.

10.4 Conditions to avoid Avoid heat, flames, sparks, other sources of ignition.**10.5 Incompatible materials** Oxidising agents**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	>888-1,859 mg/kg
Dermal	LD50	6,800-17,000 mg/kg (rabbit)

CAS: 107-98-2 1-methoxy-2-propanol

Oral	LD50	4,016 mg/kg (rat)
------	------	-------------------

(Contd. on page 10)

EN

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

Printing date 04.07.2023

Version number 2 (replaces version 1)

Revision: 04.07.2023

Trade name: KLB-SYSTEM EPOXID EP 861 Component B

(Contd. of page 9)

Dermal	LD50	>2,000 mg/kg (rabbit)
CAS: 1330-20-7 Xylene		
Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	1,700 mg/kg (rabbit)
Inhalative	LC50 (4h)	5,000 ppm (rat)
CAS: 71-36-3 butan-1-ol		
Oral	LD50	790 mg/kg (rat)
Dermal	LD50	3,400 mg/kg (rabbit)
Inhalative	LC50/4 h (vapour)	24,000 mg/l (rat)

Skin corrosion/irritation Causes skin irritation.

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

The product is classified as Specific Target Organ Toxicity after single exposure Category 3

May cause respiratory irritation. May cause drowsiness or dizziness.

STOT-repeated exposure

STOT Repeated Exposure Category 2

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard 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.

*

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 107-98-2 1-methoxy-2-propanol

EC50	1,000 mg/l (algae)
EC50 (48h)	1,000 mg/l (Daphnia magna)
LC50 (96h)	1,000 mg/l (fish)

CAS: 1330-20-7 Xylene

EC50 (48h)	>7.4 mg/l (daphnia magna)
LC50 (96h)	2.6 mg/l (fish)
NOEC r (72h)	440 mg/l (algae)

CAS: 71-36-3 butan-1-ol

LC50 (96h)	1,376 mg/l (fish)
NOEC (21d)	519 mg/l (fish)

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.

(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 04.07.2023

Version number 2 (replaces version 1)

Revision: 04.07.2023

Trade name: KLB-SYSTEM EPOXID EP 861 Component B

(Contd. of page 10)

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:** Very toxic for fish**Additional ecological information:****General notes:**

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

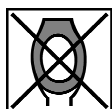
Also poisonous for fish and plankton in water bodies.

The product contains materials that are harmful to the environment.

Very toxic for aquatic organisms

* **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

HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP6	Acute Toxicity
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**

UN1866

14.2 UN proper shipping name**ADR**1866 RESIN SOLUTION, ENVIRONMENTALLY
HAZARDOUS**IMDG**RESIN SOLUTION, MARINE POLLUTANT (Phenol,
4,4'-(1-methylethylidene)bis-, polymer with
(chloromethyl) oxirane, reaction products with

(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 04.07.2023

Version number 2 (replaces version 1)

Revision: 04.07.2023

Trade name: KLB-SYSTEM EPOXID EP 861 Component B

(Contd. of page 11)

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

Class
Label

ethylenediamine)
RESIN SOLUTION

3 Flammable liquids.
3

IATA

Class
Label

3 Flammable liquids.
3

14.4 Packing group**ADR, IMDG, IATA****14.5 Environmental hazards:****Marine pollutant:**

III
Environmental Hazardous
Yes

Special marking (ADR):**14.6 Special precautions for user****Hazard identification number (Kemler code):****EMS Number:****14.7 Maritime transport in bulk according to IMO instruments**

Symbol (fish and tree)
Symbol (fish and tree)
Warning: Flammable liquids.

30

F-E,S-E

Not applicable.

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

5L

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category**Tunnel restriction code**

3

D/E

IMDG**Limited quantities (LQ)****Excepted quantities (EQ)**

5L

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":

UN 1866 RESIN SOLUTION, 3, III,
ENVIRONMENTALLY HAZARDOUS

EN

(Contd. on page 13)

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

Printing date 04.07.2023

Version number 2 (replaces version 1)

Revision: 04.07.2023

Trade name: KLB-SYSTEM EPOXID EP 861 Component B

(Contd. of page 12)

*

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.

The substance is not included in Annex I.

Seveso category

E1 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 200 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:

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.

(Contd. on page 14)

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

Printing date 04.07.2023

Version number 2 (replaces version 1)

Revision: 04.07.2023

Trade name: KLB-SYSTEM EPOXID EP 861 Component B

(Contd. of page 13)

Relevant phrases

H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H312 Harmful in contact with skin.
 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.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very 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

Flammable liquids	Bridging principles
Acute toxicity - oral Skin corrosion/irritation Serious eye damage/irritation Skin sensitisation Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Hazardous to the aquatic environment - short-term (acute) aquatic hazard 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
 A: 144, 3rd Septemvriou, GR 112 51 | Athens, Greece
 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

(Contd. on page 15)

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

Printing date 04.07.2023

Version number 2 (replaces version 1)

Revision: 04.07.2023

Trade name: KLB-SYSTEM EPOXID EP 861 Component B

(Contd. of page 14)

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

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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

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

— EN —