

Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 18.08.2021

Version number 1

Revision: 18.08.2021

1 Identification of the hazardous chemical and of the supplier

- · Product identifier
- · Trade name: KOGLUE (Kossan Marine Epoxy Glue) Part A
- · Article number: KG-A
- Recommended use of the chemical and restrictions on use No further relevant information available.
- · Application of the substance / the mixture Adhesives
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: KOSSAN PAINT (M) SDN. BHD. 1,Jalan Koporat 1/KU9, Taman Perindustrian Meru, 42200 Kapar, Selangor Darul Ehsan, Malaysia.
- Further information obtainable from: Product safety department.
 lsk@kossanpaint.com.my
 Emergency telephone number:
- Manufacturer/supplier 603-33922799

2 Hazard identification

· Classification of the substance or mixture

environment

Aquatic Acute 1H400 Very toxic to aquatic life.Aquatic Chronic 1H410 Very toxic to aquatic life with long lasting effects.



Acute Tox. 4	H312 Harmful if in contact with skin.
Acute Tox. 4	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.

· Label elements

- · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms GHS07, GHS09

· Signal word Warning

• Hazard statements

Harmful if in contact with skin or inhaled.

Causes skin irritation. Causes serious eye irritation.

Very toxic to aquatic life with long lasting effects.

· Precautionary statements

Avoid breathing dust/fume/ gas/mist/vapours/spray.

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Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific measures (see on this label).

Take off contaminated clothing and wash before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulations.

• Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• vPvB: Not applicable.

3 Composition and information of the ingredients of the hazardous chemical

• Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

0		
	ethylene glycol monoethyl ether	≥0.3-<3%
	🚸 Flam. Liq. 3, H226; 🛞 Acute Tox. 3, H331; 🚸 Repr. 1B, H360; 🚸 Acute Tox. 4,	
	H302	
1330-20-7	rylong	<i>≤</i> 2.5%
1550-20-7	<i>xytene</i>	=2.570
	🚸 Flam. Liq. 3, H226; 0 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	_
• Additional information: For the wording of the listed hazard phrases refer to section 16.		

4 First-aid measures

· 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.

- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Do not induce vomiting; call for medical help immediately.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

- · Suitable extinguishing agents:
- CO2, sand, extinguishing powder. Do not use water.
- Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents: Water with full jet

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

• Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
 Environmental precautions:
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Absorb with liquid-binding material (sana, alatomite, acta binders, universal binders, sawaust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents

· 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.

7 Handling and storage

· Handling:

- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · 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.
- · Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· Control parameters

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

110-80-5 ethylene glycol monoethyl ether (≥0.3-<3%)

PEL (Malaysia) Long-term value: 18 mg/m³, 5 ppm

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• Additional information: The lists valid during the making were used as basis.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

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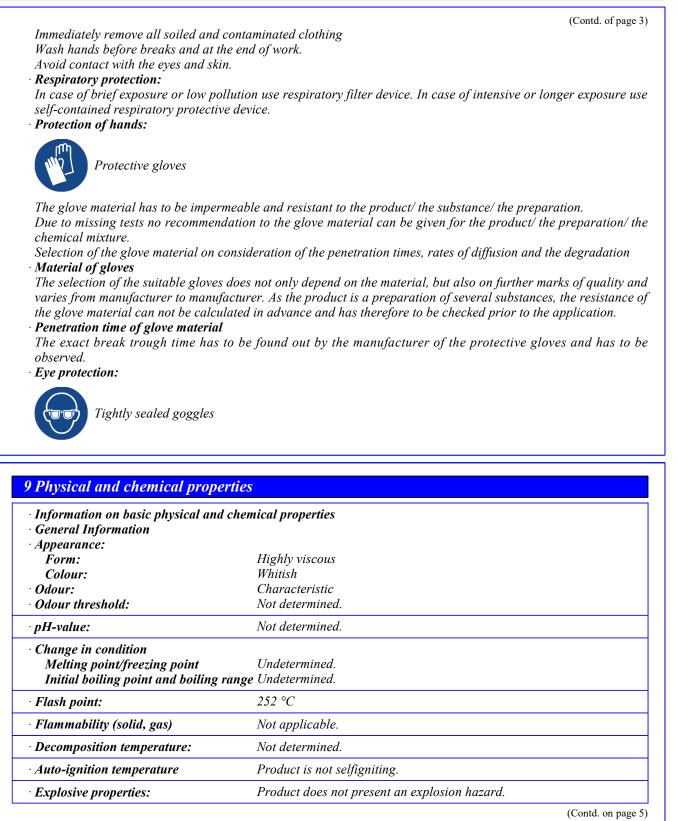
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Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	1.12 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Solids content:	90.0 %
Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity

· LD/LC50 values relevant for classification:

110-80-5 ethylene glycol monoethyl ether

Oral	LD50	3,000 mg/kg (rat)
Dermal	LD50	3,300 mg/kg (rabbit)
Inhalative	LC50/4 h	2,000 mg/l (rat)

Primary irritant effect:

· Skin corrosion or irritation Irritant to skin and mucous membranes.

· Serious eye damage or eye irritation Irritating effect.

- · Respiratory / skin sensitization No sensitising effects known.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Toxic

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Harmful

Irritant

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- *Remark:* Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

- Very toxic for aquatic organisms
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal information

· Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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

· UN-Number	-
· ADR, IMDG, IATA	UN1263
· UN proper shipping name	
ADR	1263 PAINT RELATED MATERIAL, ENVIRONMENTAI HAZARDOUS
· IMDG, IATA	PAINT RELATED MATERIAL
· Transport hazard class(es)	
· ADR	
· Class	3 Flammable liquids.

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· Label	3
· IMDG, IATA	
· Class	3 Flammable liquids.
·Label	3
· Packing group	
· ADR, IMDG, IATA	III
· Environmental hazards:	
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user	Warning: Flammable liquids.
· EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
· Transport in bulk according to Annex II of	Marpol
and the IBC Code	Not applicable.
· UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, II ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· EHS reference list

110-80-5 ethylene glycol monoethyl ether

1330-20-7 xylene

• *GHS label elements* The product is classified and labelled according to the Globally Harmonised System (GHS). • *Hazard pictograms* GHS07, GHS09

· Signal word Warning

· Hazard statements

Harmful if in contact with skin or inhaled. Causes skin irritation.

Causes skin irritation. Causes serious eye irritation.

Very toxic to aquatic life with long lasting effects.

· Precautionary statements

Avoid breathing dust/fume/ gas/mist/vapours/spray.

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific measures (see on this label).

Take off contaminated clothing and wash before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

• Seveso category E1 Hazardous to the Aquatic Environment

- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

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

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.

· Department issuing SDS: Product safety department.

• Abbreviations and acronvms: ICAO: International Civil Aviation Organisation 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 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity - oral - Category 4 Acute Tox. 3: Acute toxicity - oral - Category 3 Skin Irrit. 2: Skin corrosion or irritation – Category 2 Eye Irrit. 2: Serious eye damage or eye irritation – Category 2 Repr. 1B: Reproductive toxicity – Category 1B Aquatic Acute 1: Hazardous to the aquatic environment - acute hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - chronic hazard - Category 1 • * Data compared to the previous version altered.

[•] Contact: Mr. S.K. Lim