



PT. Indowijaya Sakti Teguh

Jl. Pangeran Jayakarta 121/3-4, Jakarta Pusat

www.puffinpaint.com TELP : 021- 62313238

MATERIAL SAFETY DATA SHEET PUFFIN EPOXY EPOCHEMIX B

Item	Information
Code	PEECMB
Product identity no.	IW-PEECM-B
Published	July 2026
Edited	-
Distribution date	July 2026
Trade name	PUFFIN EPOXY EPOCHEMIX B

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Field	Information
Identification of substance/preparation	Amine
Recommendation/use	Hardener
Supplier	PT. Indowijaya Sakti Teguh
Address	Jl. Pangeran Jayakarta No. 121/3-4, Jakarta Pusat, 10730, Indonesia
Phone	+6221 6231 3238
WhatsApp	+6287873743534 (WA messages only)
Email	sales.support@puffinpaint.com

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

- Skin corrosion/irritation — Category 2
- Serious eye damage/eye irritation — Category 2A
- Skin sensitisation — Category 1
- Long-term (chronic) aquatic hazard — Category 2

GHS label elements

Element	Description
Hazard pictograms	Not specified in source document
Signal word	Warning
Hazard statements	Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Prevention	Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Wash hands thoroughly after handling.



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Response	Collect spillage. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	Not applicable.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards	None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Property	Value
Substance/mixture	Mixture
Other means of identification	Not available
CAS number	Not applicable
EC number	Mixture
Product code	496
Chemical formula	Not applicable

CAS number	Ingredient name	%
1675-54-3	Epoxy resin (MW $\leq$ 700)	$\geq 50 - \leq 75$
68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs	$\geq 10 - \leq 25$
68475-94-5	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with 1-chloro-2,3-epoxypropane	≤ 3
9072-62-2	Oxirane, 2-(chloromethyl)-, polymer with α -hydro- ω -hydroxy-poly[oxy(methyl-1,2-ethanediyl)]	≤ 3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

Route	Measures
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting upper and lower eyelids. Check for and remove contact lenses. Continue rinsing for at least 10 minutes. Get medical attention.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, trained personnel should provide artificial respiration or oxygen. Get medical attention if adverse effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately.
Skin contact	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Continue rinsing for at least 10 minutes. Get medical attention. Wash clothing before reuse and clean shoes thoroughly before reuse.
Ingestion	Wash out mouth with water. Move victim to fresh air and keep at rest. If swallowed and conscious, give small quantities of water. Do not induce vomiting unless directed by medical personnel. Get medical attention if effects



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	persist or are severe. Never give anything by mouth to an unconscious person.
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Topic	Information
Potential acute health effects	Eye: causes serious eye irritation. Inhalation: no known significant effects or critical hazards. Skin: causes skin irritation and may cause an allergic skin reaction. Ingestion: no known significant effects or critical hazards.
Over-exposure signs/symptoms	Eye: pain or irritation, watering, redness. Skin: irritation and redness. Inhalation/ingestion: no specific data.
Notes to physician	Symptoms from inhalation of decomposition products in a fire may be delayed. Medical surveillance for 48 hours may be needed.
Specific treatments	No specific treatment.
Protection of first-aiders	No action shall be taken involving personal risk or without suitable training. Mouth-to-mouth resuscitation may be dangerous.

5. FIRE FIGHTING MEASURES

Item	Information
Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards	In a fire or if heated, pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Contaminated fire water must be contained and prevented from discharge to waterways, sewers or drains.
Hazardous thermal decomposition products	Carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, halogenated compounds, carbonyl halides and metal oxide/oxides.
Special protective equipment	Fire-fighters should wear appropriate protective equipment and SCBA with full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Item	Information
Personal precautions	Evacuate surrounding areas. Keep unnecessary and unprotected personnel away. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation and wear appropriate PPE/respirator when needed.
Emergency responders	If specialised clothing is required, refer to Section 8 information on suitable and unsuitable materials.
Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform relevant authorities if environmental pollution occurs. Collect spillage.
Small spill	Stop leak if without risk. Move containers from spill area. Absorb with inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Approach from upwind. Prevent entry into sewers, watercourses, basements or confined areas. Contain and collect spillage with non-combustible absorbent material such as sand, earth, vermiculite or diatomaceous earth.



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7. HANDLING AND STORAGE

Item	Information
Safe handling	Wear appropriate PPE. Avoid eye/skin/clothing contact. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep container tightly closed when not in use. Empty containers retain residue and can be hazardous; do not reuse container.
Occupational hygiene	Eating, drinking and smoking should be prohibited where this material is handled, stored and processed. Wash hands and face before eating, drinking and smoking. Remove contaminated clothing and PPE before entering eating areas.
Safe storage	Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, food and drink. Keep container tightly closed and sealed until ready for use. Reseal opened containers and keep upright.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Item	Information
Occupational exposure limits	None.
Engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Hygiene measures	Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Ensure eyewash stations and safety showers are close to the workstation.
Eye/face protection	Use safety eyewear complying with EN 166 when indicated by risk assessment. Chemical splash goggles are recommended if contact is possible.
Hand protection	Wear suitable gloves tested to EN 374. Recommended gloves (breakthrough time >8 hours): PVC, fluor rubber, Viton®, PE, butyl rubber, nitrile rubber or neoprene.
Body/skin protection	Select PPE, footwear and additional skin protection based on the task and risks involved.
Respiratory protection	Select an appropriate respirator based on hazard and exposure potential, and use according to a respiratory protection program.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance / physical state	Liquid
Colour	Various colours
Odour	Characteristic
Odour threshold	Not available
pH	Not applicable
Melting/freezing point	Not applicable
Boiling point	Lowest known value: >260°C (>500°F) (epoxy resin, MW ≤700)
Flash point	Closed cup: 100°C (212°F)
Evaporation rate	Not available
Flammability	Not applicable



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Vapour pressure	Highest known value: 0 kPa (0 mm Hg) at 20°C; weighted average 0 kPa at 20°C
Vapour density	Highest known value: 11.7 (Air = 1) (epoxy resin, MW ≤700)
Relative density	1.17 to 1.392 g/cm ³
Solubility	Insoluble in cold water and hot water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
SADT	Not available
Viscosity	Dynamic: highest known value 10 to 12 cP (epoxy resin, MW ≤700); weighted average 10.13 cP. Kinematic (40°C): >20.5 cSt

10. STABILITY AND REACTIVITY

Item	Information
Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No specific data.
Incompatible materials	Keep away from oxidising agents, strong alkalis and strong acids to prevent strong exothermic reactions.
Hazardous decomposition products	Under normal storage and use, hazardous decomposition products should not be produced.
SADT	Not available.

11. TOXICOLOGICAL INFORMATION

Topic	Information
Acute toxicity	Epoxy resin (MW ≤700): LD50 dermal rabbit 20 g/kg; LD50 oral mouse 15600 mg/kg; LD50 oral rat 17100 mg/kg.
Irritation/corrosion	Epoxy resin (MW ≤700): severe eye irritant and mild to moderate skin irritant. Other listed components may cause mild skin and/or eye irritation.
Sensitisation	Listed epoxy resin and related components are skin sensitising.
Mutagenicity / carcinogenicity / reproductive toxicity / teratogenicity	Not available; no known significant effects or critical hazards where stated.
STOT / aspiration hazard	Not available.
Potential acute effects	Eye: causes serious eye irritation. Skin: causes irritation and may cause allergic skin reaction. Inhalation/ingestion: no known significant effects or critical hazards.
Chronic effects	Once sensitised, a severe allergic reaction may occur when subsequently exposed to very low levels.



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Acute toxicity estimates	Not available.
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12. ECOLOGICAL INFORMATION

Topic	Information
Toxicity	Epoxy resin (MW ≤700): Acute EC50 1.4 mg/L, Daphnia, 48 hours; Acute LC50 3.1 mg/L, fish (Pimephales promelas), 96 hours; Chronic NOEC 0.3 mg/L, fish, 21 days.
Persistence/degradability	Epoxy resin (MW ≤700): readily biodegradable; aquatic half-life and photolysis not specified.
Bioaccumulative potential	Epoxy resin (MW ≤700): LogPow 2.64 to 3.78; BCF 31; potential low. Oxirane mono[(C12-14-alkyloxy)methyl] derivs: LogPow 3.77; BCF 160 to 263; potential low.
Mobility in soil	Soil/water partition coefficient (KOC): not available.
Other adverse effects	No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and by-products must comply with environmental protection and waste disposal legislation and regional/local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Do not dispose of untreated waste to sewer unless fully compliant with authority requirements. Waste packaging should be recycled where feasible. This material and/or container must be disposed of as hazardous waste.

14. TRANSPORT INFORMATION

Item	UN	IMDG	IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (epoxy resin, MW ≤700)	Environmentally hazardous substance, liquid, n.o.s. (epoxy resin, MW ≤700). Marine pollutant.	Environmentally hazardous substance, liquid, n.o.s. (epoxy resin, MW ≤700)
Transport hazard class(es)	9	9	9
Packing group	III	III	III
Environmental hazards	Yes	Yes	Yes
Additional information	Not regulated as dangerous goods in sizes of ≤5 L or ≤5 kg when packaging meets applicable provisions.	Not regulated as dangerous goods in sizes of ≤5 L or ≤5 kg when packaging meets applicable provisions. Emergency schedules: F-A, S-F.	Not regulated as dangerous goods in sizes of ≤5 L or ≤5 kg when packaging meets applicable provisions.

Additional information: Transport in accordance with ADR/RID, IMDG/IMO, ICAO/IATA and national regulations. ADR/RID: Tunnel restriction code (-); hazard identification number 90. Transport within user's premises must be in closed containers that are upright and secure. Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

Singapore — hazardous chemicals under government control: None.



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16. OTHER INFORMATION

Key to abbreviations

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978
- UN = United Nations

References: Not available.

Notes

PT. Indowijaya Sakti Teguh has a responsibility to take reasonable care for our own health and safety and the health and safety of others who may be affected by our acts or omissions. This MSDS, at the date of issue, contains health and safety information of the product and how to safely handle and use this product in the workplace.

All information is given to the best of our knowledge. Because end-use conditions cannot be anticipated or controlled, each user must determine safe handling and use of this product in the workplace by reviewing this MSDS.

PT. Indowijaya Sakti Teguh believes this information to be reliable and provided in good faith, but no guarantees or warranties of any kind are made as to its accuracy or suitability for particular applications. Full-scale testing and performance of the product are the responsibility of the end user.