



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 BASE C

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

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Field	Information
Identification of substance/preparation	Silica
Recommendation/use	Filler
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. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	Amount	CAS number	OSHA PEL	ACGIH TLV
Silicon dioxide (SiO ₂), crystalline quartz (respirable)	>85%	14808-60-7	0.1 mg/m ³	0.1 mg/m ³ (respirable dust)
Particulates not otherwise classified or regulated	-	-	15 mg/m ³ respirable	-

Composition comment: This product contains crystalline silica (respirable). California Prop 65: This product contains an ingredient known to the State of California to cause cancer, birth defects or other reproductive harm from long-term inhalation of SiO₂. See Section 15.

Hazards disclosure: This product contains known hazardous materials in reportable levels as defined by OSHA Hazard Communication Standard 29 CFR 1910.1200, except as listed above. As defined under SARA 311 and 312, this product contains known hazardous materials.

3. HAZARDS IDENTIFICATION

Topic	Information
Emergency overview	Excessive inhalation of crystalline silica is a serious health concern.



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HMIS/NFPA rating	Health 1; Flammability 0; Reactivity 0; Personal Protection Index t. Definitions: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme.
Protective equipment	t = Dust respirator under dust-generating conditions.
Inhalation	Acute, short-term exposure may cause mild and temporary respiratory discomfort similar to nuisance dust. Excessive inhalation of crystalline silica is a serious health concern.
Ingestion	Not listed.
Skin contact	No hazard known or expected.
Eye contact	Dust may cause mechanical irritation, redness, pain and corneal damage if not flushed promptly.
Chronic exposure	Long-term exposure (10–30 years) may result in pulmonary fibrosis (silicosis) and may aggravate bronchitis, asthma and emphysema.
Conditions aggravated by exposure	Bronchitis, emphysema and asthma. Smoking is known to aggravate exposure effects. Persons with silicosis may develop tuberculosis. Exposure to crystalline silica may also result in scleroderma and/or kidney disease.

4. FIRST AID MEASURES

Route	Measures
Inhalation	If a respiratory problem develops from dust, remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention. If victim has difficulty breathing, chest tightness, dizziness, vomiting or is unresponsive, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility. Normally, fresh clean air is sufficient.
Skin contact	Not required.
Eye contact	If dust contacts eyes, immediately flush with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
Ingestion	First aid procedures are not normally required.
Practical treatment	Always have plenty of water available for first aid. Get medical attention if symptoms develop or persist.

5. FIRE FIGHTING MEASURES

Item	Information
Flammable properties	Not flammable.
Flammable limits in air, % by volume	Not applicable.
Auto-ignition temperature	Not available.
Extinguishing media	Water, dry chemical, alcohol foam or carbon dioxide. Material floats on water. Water spray may be used to keep exposed material cool. Do not allow water runoff to enter sewers or waterways.
Fire and explosion hazards	None.

6. ACCIDENTAL RELEASE MEASURES

Item	Information
Personal precautions	Physical form requires no obvious PPE when cleaning up spills. Wear a dust mask if particulate count exceeds limits.



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Spill procedure	Material may be wetted with water to reduce dust and collected for reprocessing or disposal.
Environmental precautions	None.

7. HANDLING AND STORAGE

Item	Information
Recommended storage conditions	Avoid conditions of extreme humidity.
Shelf life	Indefinite if stored properly.
Handling	Handle in accordance with good hygiene and safety procedures. Avoid breathing dust if present. Wash thoroughly after handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Item	Information
Airborne exposure limits	See Section 2.
Ventilation system	Local and/or general exhaust is recommended to keep employee exposures below airborne exposure limits. Refer to ACGIH Industrial Ventilation, A Manual of Recommended Practices, most recent edition.
Personal respirators	If respirable particulate exposure limit is exceeded, wear a NIOSH-approved dust mask.
Skin protection	In normal industrial use, no skin protection is required.
Eye protection	When mechanically working this product, safety glasses with side shields or coverall goggles are recommended for airborne dust exposures above applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Form	Solid sheet
Colour	Tan to off-white granules
Odour	Odourless
Boiling point	2230°C (4046°F)
Solubility in water	Insoluble in water
Specific gravity	2.6 g/cm ³
Melting/freezing point	Not available
Evaporation rate	Not applicable
Auto-ignition temperature	Not available
pH	Not applicable
Flash point and method	Not applicable — non-flammable
VOC	None



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Vapour pressure	@ 72°F: 10 mm Hg
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10. STABILITY AND REACTIVITY

Item	Information
Stability	The material is stable.
Conditions to avoid	Contact with incompatibles.
Polymerisation	Polymerisation will not occur.
Incompatibility	Contact with agents such as molten magnesium, fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride or hydrofluoric acid may cause fires or corrosive gases.
Decomposition products	None.

11. TOXICOLOGICAL INFORMATION

Topic	Information
Toxicity	There are no toxicological data for this material. Adverse health effects are not known or expected under normal use.
Local effects	Dust may cause mechanical eye irritation. Chronic long-term exposure (10–30 years) may result in pulmonary fibrosis (silicosis) and may aggravate bronchitis, asthma and emphysema.
Sensitisation	Not known to occur with this material.
Long-term toxicity	Adverse health effects are not known nor expected under normal use.

12. ECOLOGICAL INFORMATION

Material offers no known environmental hazard.

13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as non-hazardous waste and sent to an approved waste facility. Processing, use or contamination of this product may change waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of material in accordance with federal, state and local requirements. May be landfilled according to applicable regulations. Wash contaminated clothing before reuse.

14. TRANSPORT INFORMATION

Item	Information
Transport modes	Domestic (Land, D.O.T.), International (Water, I.M.O.), International (Air, I.C.A.O.)
Product label	Gravel
UN number	Non-regulated material
Package class	50
D.O.T. hazard class	NA
D.O.T. proper shipping name	Not regulated



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Packing group	NA
Product RQ (lbs)	None

15. REGULATORY INFORMATION

Federal regulatory status: OSHA classification — product is hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.1200 as a respirable dust only. This product is also regulated by the Mine Safety Health Administration (MSHA).

Carcinogenicity: IARC: Yes. NTP: Yes. IARC classifies crystalline silica in Group 2A, “probably carcinogenic to humans.” NTP classifies respirable crystalline silica as a substance that may reasonably be anticipated to be a carcinogen. California Prop 65: Yes. Silica, crystalline (airborne particles of respirable size), is known to the State of California to cause cancer.

Not on the 302 list of SARA reportable quantities. Poison Schedule: None allocated. WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and contains the required information.

Inventory status: Components are listed on TSCA, Canadian DSL, EINECS, ENCS (Japan), Korea, Australia, China (draft), PICCS (Philippines) and Japan (ENCS) inventory lists, as applicable.

16. OTHER INFORMATION

Field	Information
Prepared by	Donato Polignone
Part number	-
Approved by	Donato Polignone
Title	MSDS Coordinator
Approval date	January 18, 2005
Supersedes date	January 10, 2005

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.