

1. IDENTIFICATION OF THE MIXTURE AND OF THE SUPPLIER	
Product Identifier	
Product	EPOXY PRIMER GREY [58-0109]
Recommended use of chemical	Use as Coating
Restriction on use	No open flames, No spraks, and No smoking
Supplier's details	
Company	Big-Ben (Paints) Company Limited
Address	38 Mu 7 Suanluangruamjai Road Suanluang Krathumban Samutsakorn 74110 Thailand
Telephone number	+66 2 811 1442 or +66 2 811 1443
Fax number	+66 2 811 0632
E-mail	bbp@bbp.co.th
Emergency phone number	+66 2 811 1442 or + 66 2 811 1443

2. HAZARD IDENTIFICATION	
Classification of the substance or mixture This product has been classified in accordance with the hazard communication standard 29 CSR 1910.1200; the SDS and labels contain all the information as required by the standard.	
Flammable liquids	Category 1
Skin corrosion/irritation	Category 2
Eye damage/irritation	Category 1
Sentization - skin	Category 1
Specific target organ toxicity (single exposure)	Category 3
Hazardous to the aquatic environment - acute hazard	Category 1
Hazardous to the aquatic environment - long-term hazard	Category 3
Remark: Percentage of mixture consisting of ingredient(s) of unknown oral toxicity: 64.28% Percentage of mixture consisting of ingredient(s) of unknown dermal toxicity: 98.85% Percentage of mixture consisting of ingredient(s) of unknown inhalation toxicity: 71.33%	

GHS label elements	
Pictogram or symbol	
Signal word	Danger

Hazard statement: H224 Extremely flammable liquid and vapour H315 Causes skin irritation H317 May cause an allergic skin reaction H318 Causes serious eye damage H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H400 Very toxic to aquatic life H412 Harmful to aquatic life with long lasting effects	
Precautionary statement [PREVENTION] P210 Keep away from heat / sparks / open flames / hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground / bond container and receiving equipment.	

P241 Use explosion-proof electrical / ventilating / lighting / equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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

[RESPONSE]

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

P303+P361+P353 IF ON SKIN (or hair) Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+P340 IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor / physician.

P312 Call a POISON CENTER or doctor / physician if you feel unwell.

P321 Specific treatment (see on this label).

P332+P313 IF skin irritation occurs Get medical advice / attention.

P333+P313 IF skin irritation or rash occurs Get medical advice / attention.

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P391 Collect spillage.

[STORAGE]

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

[DISPOSAL]

P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Content % (w/w)
trizinc(2+) diphosphate	7779-90-0	0.93 - 2.73
2-Methylpropanol-1;2-Methylpropyl alcoho	78-83-1	2.89 - 5.83
Barite	7727-43-7	3.87 - 11.33
Calcium Metasilicate	13983-17-0	0.78 - 1.82
Epoxy Resin	25068-38-6	18.22 - 31.68
Magnesium Dioxide	1309-48-4	1.97 - 4.88
Polyamine	-	0.48 - 1.22
Silicon Dioxide	7631-86-9	6.99 - 9.23
Silicon dioxide	14808-60-7	2.48 - 7.93
Titanium Dioxide	13463-67-7	11.75 - 21.03
Xylene	1330-20-7	13.79 - 32.93

4. FIRST AND MEASURES	
Inhalation	Remove to fresh air. If unconscious, place in recovery position and seek medical attention immediately.
Skin contact	Immediately flush with water for at least 15 minutes. Remove contaminated clothing. Seek medical attention immediately. Wash thoroughly after handling.
Eye contact	Hold eyelids apart and immediately flush with plenty of water for 15 minutes. Seek medical advice. Remove contact lenses.
Ingestion	Rinse mouth with water. Never give anything by mouth to an unconscious person. Obtain medical attention. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.
Most important symptoms/effects, acute and delayed	Dizziness. Drowsiness. Headache. Nausea. Vomiting. Weakness. Unconsciousness. Skin and eye redness. Pain. Nausea. Vomiting.

5. FIRE FIGHTING MEASURES	
Suitable extinguishing media	Dry chemical. Carbon Dioxide (CO ₂). Alcohol-resistant foam. Water spray.
Unsuitable extinguishing media	High volume water jet.
Specific hazards arising from the chemical	Flammable liquid. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Container may rupture on heating.
Specific protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and full protective clothing for firefighting.

6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment, and emergency procedures	Keep unnecessary personnel away. Prevent further leakage or spillage if safe to do so. Use personal protective equipment. Use only non-sparking tools.
Environmental precautions	Prevent the material from entering drains or water courses.
Methods and materials for containment and cleaning up	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations.

7. HANDLING AND STORAGE	
Precautions for safe handling	Avoid breathing vapor and contact with eyes, skin, and clothing. Do not leave containers open. Avoid repeated or prolonged contact with skin.
Conditions for safe storage, including any incompatibilities	Keep away from heat or flames. Keep in cool, dry, ventilated storage and in closed containers. Store away from oxidizing agent.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Control parameters	<u>Trizinc(2+) diphosphate</u> <u>2-Methylpropanol-1;2-Methylpropyl alcohol</u> OSHA PEL-TWA 100¹⁴ Skin notification N¹⁴ NIOSH REL-TWA 50¹⁴ Skin notification N¹⁴ ACGIH Skin notification N¹⁴ CAL/OSHA Skin notification N¹⁴ <u>Barite</u> OSHA Skin notification N⁸¹ NIOSH Skin notification N⁸¹ ACGIH Skin notification N⁸¹ CAL/OSHA

	Skin notification N⁸¹ <u>Calcium Metasilicate</u> <u>Epoxy Resin</u> <u>Magnesium Dioxide</u> <u>Polyamine</u> <u>Silicon Dioxide</u> <u>Silicon dioxide</u> OSHA Skin notification N⁸² NIOSH Skin notification N⁸² ACGIH Skin notification N⁸² CAL/OSHA Skin notification N⁸² <u>Titanium Dioxide</u> OSHA PEL-TWA 15⁵⁴ Skin notification N⁵⁴ NIOSH Skin notification N⁵⁴ ACGIH TLV-TWA 10⁵⁴ Skin notification N⁵⁴ CAL/OSHA PEL-TWA 10⁵⁴ Skin notification N⁵⁴ <u>Xylene</u> OSHA PEL-TWA 100¹⁷ Skin notification N¹⁷ NIOSH REL-TWA 100¹⁷ Skin notification N¹⁷ ACGIH TLV-TWA 100¹⁷ TLV-STEL 150¹⁷ Skin notification N¹⁷ CAL/OSHA PEL-TWA 100¹⁷ PEL-STEL 150¹⁷ PEL-C 300¹⁷ Skin notification N¹⁷
Appropriate engineering controls	Provide adequate ventilation. Install local exhaust.
Personal protective equipment	
Respiratory protection	Organic vapor respirator
Hand protection	Rubber gloves. Neoprene.
Eye protection	Safety goggle.
Skin and body protection	Wear suitable clothing

9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	High viscosity liquid
Odor	Organic Solvent
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not Available
Initial boiling point and boiling range	Not Available
Flash point	<23
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	Not available Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.25-1.35
Solubility(ies)	Soluble in organic solvent
Partition coefficient n-Octanol-water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	70-75 KU @ 30C
10. STABILITY AND REACTIVITY	
Reactivity	Reacts violently with strong acids and strong oxidants
Chemical stability	Stable under normal storage and handling conditions
Possibility of hazardous reaction	Will not occur
Condition to avoid	High temperatures, sparks, open flame, and all other sources of ignition
Incompatible materials	Strong oxidizing agents, strong acids
Hazardous decomposition products	Not available

11. TOXICOLOGICAL INFORMATION	
Acute toxicity (oral)	ATEmix = 6382.37 mg/kg (Not classified) trizinc(2+) diphosphate LD50 (rat) oral = 5000.00 mg/kg⁷⁶ 2-Methylpropanol-1;2-Methylpropyl alcoho LD50 (rat) oral = 2460.00 mg/kg¹ Barite LD50 (rat) oral = 30700.00 mg/kg⁷⁷ Calcium Metasilicate LD50 (rat) oral = 5000.00 mg/kg⁷⁸ Magnesium Dioxide LD50 (rat) oral = 3870.00 mg/kg Titanium Dioxide LD50 (rat) oral = 10000.00 mg/kg⁵¹
Acute toxicity (dermal)	Not available
Acute toxicity (dermal)	ATEmix = 6360.00 mg/kg (Not classified) Xylene LC50 (rat) inhalation = 6360.00 mg/kg⁴
Skin corrosion and skin irritation	Causes skin irritation (2-Methylpropanol-1;2-Methylpropyl alcoho,Epoxy Resin,Xylene)
Serious eye damage or eye irritation	Causes serious eye damage (2-Methylpropanol-1;2-Methylpropyl alcoho,Epoxy Resin)
Respirator and skin sensitization	Not classified
Skin sentization	May cause an allergic skin reaction (Epoxy Resin)
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity following single exposure	May cause respiratory irritation (2-Methylpropanol-1;2-Methylpropyl alcoho)
Specific target organ toxicity following repeated exposure	Not classified
Aspiration hazard	Not classified

12. ECOLOGICAL INFORMATION	
Acute aquatic hazard	Very toxic to aquatic life <u>trizinc(2+) diphosphate</u> LC50 (fish) 96 hr = 0.0112 mg/L⁷⁶ EC48 (shrimp) 48 hr = 0.015 mg/L⁷⁶ <u>2-Methylpropanol-1;2-Methylpropyl alcoho</u> LC50 (fish) 96 hr = 1430 mg/L⁵ EC48 (shrimp) 48 hr = 1100 mg/L⁵ ErC-EC72 (Fungi) 96 hr = 593 mg/L⁵ <u>Barite</u> LC50 (fish) 96 hr = 3.5 mg/L⁸⁰ EC48 (shrimp) 48 hr = 14.5 mg/L⁸⁰ ErC-EC72 (Fungi) 96 hr = 1.15 mg/L⁸⁰ <u>Epoxy Resin</u> EC48 (shrimp) 48 hr = 2 mg/L⁷⁹ <u>Titanium Dioxide</u> EC48 (shrimp) 48 hr = 100 mg/L⁵¹ ErC-EC72 (Fungi) 96 hr = 35.9 mg/L⁵¹ <u>Xylene</u> LC50 (fish) 96 hr = 3.30 mg/L¹¹
Long term aquatic hazard	Harmful to aquatic life with long lasting effects <u>trizinc(2+) diphosphate</u> NOEC fish = 0.078 mg/L⁷⁶ NOEC shrimp = 0.075 mg/L⁷⁶ <u>2-Methylpropanol-1;2-Methylpropyl alcoho</u> NOEC shrimp = 20 mg/L⁵ NOEC fungi = 53 mg/L⁵ <u>Barite</u> NOEC fish = 1.26 mg/L⁸⁰ NOEC shrimp = 2.9 mg/L⁸⁰ NOEC fungi = 1.15 mg/L⁸⁰ <u>Titanium Dioxide</u> NOEC shrimp = 1.72-5 mg/L⁵² NOEC fungi = 1 mg/L⁵³ <u>Xylene</u> NOEC fish = 1.30 mg/L¹³ NOEC shrimp = 1.57 mg/L⁷ NOEC fungi = 0.44 mg/L⁷
Persistence and degradability	Rapidly degradable (2-Methylpropanol-1;2-Methylpropyl alcoho,Xylene)
Bioaccumulative potential	Bioaccumulative potential <u>2-Methylpropanol-1;2-Methylpropyl alcoho</u> log KOW = 0.76¹⁹ BCF = 3¹⁹ <u>Xylene</u> log KOW = 3.20²² BCF = 14.80²²
Mobility in soil	The product is insoluable in water. If released to water, some of the components will have tendency to evaporate while other components are expected to be highly mobile in soil and have the potential to reach underground water supplies.
Other adverse effects	Not available
13. DISPOSAL CONSIDERATIONS	
Disposal methods	Disposing of this material/container should be done under all the regulations or handled by authorized waste collector in your country
Container disposal	Do not re-use empty containers

14. TRANSPORT INFORMATION	
Labels required	
UN number	1263
UN proper shipping name	Paint
Transport hazard class(es)	3
Packing group	III
Environmental hazards	Not applicable
Special precautions	Not applicable
Transport in bulk	Not applicable
15. REGULATORY INFORMATION	
Inventory of existing chemical substance produced or imported in USA (TSCA)	All component in this product are listed
Toxic substance control act (TSCA)	All component in this product are listed
16. OTHER INFORMATION	
Issue date: 26 August 2022	
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