



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CERAMIC COATING
Product Type : Epoxy resin
Company Address : **JP CONSULTANCY & ENGINEERING SDN BHD (884518-A)**
NO 9 & 11, Jln Salung 33/26
Section 33, Shah Alam Technology Park
40400 Shah Alam
Selangor Darul Ehsan

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	%	Exposure Limits
Epoxy resin	25068-38-6	30-50	Not established.
Ceramic pigments	----	40-60	Not established

3. HAZARDS IDENTIFICATION

PHYSICAL STATE: Liquid
COLOR: Grey
ODOR: Mild

**WARNING! CAUSES SEVERE EYE AND SKIN IRRITATION.MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION.
COMBUSTIBLE LIQUID AND VAPOR.MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.MAY CAUSE
RESPIRATORY TRACT IRRITATION**

Potential Health Effects

Eye: Severe eye irritation. Blurred vision. Excess tearing. Pain and discomfort. Corneal damage may occur.
Skin: May be harmful if absorbed through skin. Allergic skin reaction. Itching. Severe skin irritation. Pain and discomfort. Swelling. Redness. May cause skin damage.
Ingestion: May be harmful if swallowed. May cause central nervous system depression.
Inhalation: Mild respiratory tract irritation. Coughing. May cause central nervous system depression. Potential respiratory sensitizer. Conditions Aggravated by Exposure: Respiratory disorders. Skin disorders. Eye disorders. Skin allergies. Respiratory allergies.

4. FIRST AID MEASURES

Eye:	Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids open. Get medical attention.
Skin:	Immediately flush skin with plenty of water (using soap, if available) for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention.
Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation:	Remove to fresh air. If symptoms develop and persist, get medical attention. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Note to Physician:	None

5. FIRE FIGHTING MEASURES

Flash Point:	
CLOSED CUP :	200.F (93.C). Tagliabue. In case of fire, use water spray (fog), foam, dry chemicals, or CO2.
Extinguishing Media:	
Flammable Limits:	Not available.
Special Fire Fighting Procedures:	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Water may be used to keep fire-exposed containers cool until fire is out. Hazardous Combustion Products: Oxides of carbon. Oxides of nitrogen. Oxides of copper. Aldehydes. Acids. Phenolics.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak:	Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Soak up with inert absorbent. Store in closed container until disposal.
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7. HANDLING AND STORAGE

Handling:	Do not swallow. Avoid contact with eyes, skin, and clothing. Do not breathe vapor or mist. Keep away from heat, sparks and flame. Vapors may travel along ground and flashback along vapor trail. Wash thoroughly after handling.
Storage:	Keep in a cool and well-ventilated area. Keep container tightly closed and sealed until ready to use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.
Eye/Face Protection:	Chemical splash goggles or safety glasses with side shields. Full face shield should be used if the potential exists for splashing or spraying of product.
Skin Protection:	Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.
Respiratory Protection:	Use a NIOSH approved air purifying respirator with an organic cartridge if there is potential to exceed exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color :	Grey
Material State :	Liquid
Odor :	Mild
Boiling point :	Not available
PH :	Not applicable
Solubility in Water:	Insoluble
Specific gravity :	2.0
VOC :	Not available.
Vapor Pressure :	Not available.
Vapor density :	>1 (Air = 1)
Evaporation Rate :	<1 compared to Butyl acetate.

10. STABILITY AND REACTIVITY

Stability: Stable.
Conditions to Avoid: Heat. Flames
Incompatibility: Oxidizing agents. Strong Lewis acids. Strong mineral acids.
Strong mineral bases. Strong organic bases, especially primary amines, secondary amines.
Hazardous Polymerization: Will not occur.
Hazardous Decomposition Products: None known

11. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Dispose according to central and local governmental regulations.

12. TRANSPORTATION INFORMATION

Shipping Description: Not regulated.

13. OTHER INFORMATION

NFPA Code:
Health: 3
Flammability: 1
Reactivity: 0
Special: None