

**MATERIAL SAFETY DATA SHEET
EPOXY ENAMEL 4:1**

1. PRODUCT AND COMPANY IDENTIFICATION:

TRADE / COMMERCIAL NAME	Epoxy enamel
CHEMICAL FAMILY	Epoxy polyamide
UN NO	1268
ERG NO	153
HAZCHEM CODE	2x
EAC	60

2. COMPOSITION:

HAZARDOUS COMPONENTS	Aromatic hydrocarbons, alcohols and glycol ether. Inorganic and organic synthetics
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3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW: Corrosive to skin and mucous membranes.

POTENTIAL HEALTH EFFECTS:

INHALATION: High vapour concentrations may be irritating to eyes, nose and respiratory tract. May cause headaches, dizziness and nausea. Use with adequate ventilation. Repeated inhalation may cause lung damage.

EYE CONTACT: Contact will cause irritation and/or burns.

SKIN CONTACT: May cause skin irritation and/or dermatitis.

INGESTION: May cause pulmonary damage, if aspirated into the lungs.

CARCINOGENICITY: NTP – not listed
IARC – not listed
OSHA – not listed

Medical conditions aggravated by exposure: dermatitis, existing respiratory disease and existing liver and kidney disease.

4. FIRST AID MEASURES:

FIRST AID SKIN:	Remove and isolate contaminated clothing and shoes. For minor skin contact, avoid spreading material on unaffected skin. Flush body with plenty of water and soap for at least 20 minutes. Keep warm and quiet.
FIRST AID EYES:	Flush eyes with water for 20 minutes with 1 minute of contact. Hold eyelids open while washing.
FIRST AID INGESTED:	Do not induce vomiting. Seek medical assistance. Administer vegetable oil (Note to doctor: If material is aspirated into the lungs, may cause chemical pneumonitis).
FIRST AID INHALATION:	Move victim to fresh air. If not breathing give artificial respiration. Do not use mouth to mouth, if victim has inhaled or ingested the substance; induce artificial respiration with the aid of a pocket mask with a one-way valve. If breathing of victim is difficult, administer oxygen. Effects of exposure may be delayed. Seek medical attention if necessary.

5. FIRE FIGHTING MEASURES:

Carbon dioxide, foam and dry chemical.

Fire involving Tanks or Bulk containers: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Do not get water inside containers. ALWAYS stay away from the ends of tanks.

Cool containers with flooding quantities of water until well after fire is out.

Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Isolate spill or leak area immediately for at least 25 to 50 metres (80 to 160 feet) in all directions.

Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate enclosed areas.

Wear positive pressure self-contained breathing apparatus (SCBA).

Wear chemical protective clothing, which is specifically recommended by the manufacturer.

Structural firefighters' protective clothing is recommended for fire situations ONLY; it is not effective in spill situations.

If vehicle is involved in a fire, ISOLATE for 800 metres, (1/2 mile) in all directions, also, consider initial evacuation for 800 metres (1/2 mile) in all directions.

6. ACCIDENTAL RELEASE MEASURES:

PRECAUTIONS:

Absorb with fire retardant treated sawdust, diatomaceous earth etc. Shovel up and dispose at an appropriate waste disposal facility.

Restrict access to area.

Provide adequate protective equipment and ventilation.

Remove sources of heat and flame.

Notify occupational and environmental authorities.

B & R PRODUCTS (PTY) LTD

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SPILL OR LEAK:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk.

Prevent entry into waterways, sewers, basements or confined areas.

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

DO NOT GET WATER INSIDE CONTAINERS.

7. HANDLING AND STORAGE:

Store between 0 and 28°C.

Keep out of direct sunlight.

Empty containers may retain hazardous residue and explosive vapours.

Keep away from heat, sparks or flame.

Do not cut, puncture, or weld on or near this container.

Follow label warnings until container is thoroughly cleaned or destroyed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

OCCUPATIONAL EXPOSURE LIMITS: NO EXPOSURE LIMITS ESTABLISHED.

CONTROLS:

The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside. Supply sufficient replacement air to make up for air removed. Have a safety shower / eye wash fountain readily available in the immediate work area.

PERSONAL PROTECTION:

If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment, including chemical safety goggles & face shield, boots, imperious gloves, coveralls & respiratory protection. Have appropriate equipment available for use in emergencies.

9. PHYSICAL & CHEMICAL PROPERTIES:

FINISH:

High gloss

VEHICLE TYPE:

Epoxy polyamide

PIGMENT TYPE:

Inorganic and organic synthetics

SOLVENT TYPE:

Aromatic hydrocarbons

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FLASH POINT MIN: 21 degrees C
SOLIDS CONTENT: 55 – 60% by weight
VISCOSITY AT 25 DEGREES C: 650 cPu

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: Stable but corrosive

11. TOXICOLOGICAL INFORMATION:

TOXIC: Inhalation, ingestion, or skin contact with material may cause severe injury or death. Contact with molten substance may cause severe burns to skin and eyes. Effects of contact or inhalation may be delayed.

12. ECOLOGICAL INFORMATION:

No ecological problems are expected when the product is handled and used with due care.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHOD PRODUCT: Disposal in accordance with local legal provisions. Disposal recommendations apply to the original material and its container and not to any materials which are a waste by-product of the user's operation. Chemical residues generally count as special waste. The disposal of the latter is regulated through corresponding laws and regulations. We recommend that you contact the authorities in charge of approved waste disposal companies which will advise you on how to dispose of special waste.

14. TRANSPORT INFORMATION:

<u>UN No</u>	1268	<u>Hazchem Code</u>	2x
<u>ERG No</u>	153	<u>EAC</u>	60
<u>IMDG Code</u>	3	<u>IMDG-Packaging Group</u>	II
<u>Marine Pollutant</u>	Yes		
<u>Class</u>	Class: 3		
<u>Subsidiary Risks</u>	None		
<u>Tremcard Number</u>	****		

15. REGULATORY INFORMATION:

RISK PHRASES: Causes severe burns.

SAFETY PHRASES: Keep out of reach of children.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. OTHER INFORMATION:

Reason for Alteration: New Product.

The information contained herein is based on the present state to our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properness of the product.

