

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCTS / IDENTIFICATION OF SUBSTANCE

PRODUCT NAME: Epoxy Topcoat Enamel
PRODUCT CODE: Sealbond ET-1018
PRODUCT TYPE: Epoxy Resin / Polyamide Base

2. COMPOSITION / INFORMATION ON INGREDIENTS

EPOXY RESIN

SUBSTANCE CHEMICAL FAMILY: Reaction Product of Bisphenol A and Epichlorohydrin.

COMMON NAME : Diglycidyl ether of Bisphenol A (DGEBA)

POLYAMIDE BASE

SUBSTANCE CHEMICAL FAMILY: Fatty oils which contains Polyethyleneamines

3. HAZARDS IDENTIFICATION

POLYAMIDE RESIN

SPECIFIC HAZARDS

Irritant (XI)

May cause sensitization by skin contact.

ADVERSE HUMAN HEALTH EFFECTS

ENVIRONMENTAL EFFECTS

PHYSICAL AND CHEMICAL HAZARDS

4. FIRST AID MEASURES

INHALATION

Take person out of the contaminated area. Remove patient to fresh air.

Call a doctor immediately.

SKIN CONTACT

Wash in soap and water and rinse with water.

Take off all contaminated clothing.

EYE CONTACT

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Never use solvent.

If irritation continues, see an ophthalmologist.

INGESTION

Give lukewarm water to drink. Do not induce vomiting.

Do not make the victim drink milk or fatty fluids.

If swallowed, seek immediate advice and show container or label to the doctor.

PROTECTION OF FIRST AIDERS

NOTE TO PHYSICIAN

OTHERS

Call a doctor in case of doubt or if symptoms persist.

If unconscious, place in recovery position and seek medical advice.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE

Dry powder.

Foam.

Carbon dioxide.

NOT SUITABLE

Water jet.

SPECIFIC HAZARDS

Toxic vapours.

SPECIFIC METHODS

Cool the container with water when exposed to fire.

Eliminate all sources of combustion.

PROTECTION OF FIRE FIGHTERS

In case of fire and/or explosion do not breath fumes.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Avoid inhaling vapors.

Keep away from fire and sparks.

Workplace ventilation.

SPECIAL PROTECTIVE MEASURES

Water protective equipment.

Refer to protective measures listed in sections 7 and 8.

ENVIRONMENTAL PRECAUTIONS

Discharge in sewer prohibited.

Absorb with inert material (vermiculate, sand) and collect in closed containers.

If the product contaminates lakes, rivers or sewers, inform appropriate authorities in accordance with local regulations.

METHOD OF CLEANING UP RECOVERY

Collect spillages.

Absorb with sand or sawdust.

Collect the product in a container pending future destruction.

NEUTRALIZATION

DISPOSAL

Use authorized discharger or burn in approved installation.

Do not discharge in sewers.

Consult local waste disposal authorities.

7. HANDLING AND STORAGE

HANDLING

Avoid contact with skin.

Avoid contact with eyes.

TECHNICAL MEASURES

PREVENTION OF WORKER EXPOSURE

Handle with care using hand and eye protection.

When using, workplace ventilation is required – NO SMOKING

Comply with the Health and Safety work laws.

PREVENTION OF FIRE AND EXPLOSION

Keep away from sources of ignition – NO SMOKING

SAFE HANDLING ADVISES

STORAGE

Do not keep for prolonged periods of time.

Keep container tightly closed.

Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES (SOLVENT USED)

Density at 20°C	0.865 – 0.875 kg/l
Flash point, Abel	24°C
Auto-ignition temperature	500°C
Explosive Limits in Air, Lower	1.0 % vol.
Lower	6.0 % vol.
Vapour Density at 0°C & 1 atm.	3.7
Threshold Limit Value, TLV - TWA	100 ppm (434 mg/m ³)
(ACGIH 1989 – 90) TLV - STEL	150 ppm (651 mg/m ³)
VOC :	not more than 250 g/L(test result pending – SGS testing center)

10. STABILITY AND REACTIVITY

STABILITY & REACTIVITY

Stable under ambient temperature

MATERIALS TO AVOID

Minerals and organic acids, oxidizing materials and organic halides.

HAZARDOUS DECOMPOSITION PRODUCTS

Combustion can produce carbon monoxide and or/ carbon dioxide and oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Inhalation (rat) LC50 : Not Determined

Skin (rabbit) LD50 : Not Determined

SKIN IRRITATION: may cause burns

EYE IRRITATION: Irritating to eyes.

SENSITIZING: may cause sensitization by inhalation and skin contact.

CHRONIC TOXICITY: No information

CARCINOGENICITY IARC: group 4 ACGIH: A5 EU

REPRODUCTIVE TOXICITY: No Information

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY : Not notice biodegradability

BIOACCUMULATION : Not Notice bioaccumulation

ECOTOXICITY : hr LC50 mg/l

13. DISPOSAL CONSIDERATIONS

Waste cloth and resin are burning in a chemical incinerator with an afterburner and scrubber. Or contact local industrial waste disposal company for disposal.

14. TRANSPORT INFORMATION

UN Haz. Class : 8

UN Number : 1760

Packaging Group : 3

15. REGULATIONS

Labeling according to EEC Directives

Hazardous identification : Hazards identification : C (Corrosive)

Harmful in contact with skin and if swallowed. Irritating to eyes. Causes burns.

May cause sensitization by skin contact.

16. OTHER INFORMATION

The data are up to the current level of our knowledge and experience. The MSDS I only intended to give a description of products with regard to safety requirement. The data cannot be interpreted as a guarantee of properties.