

MATERIAL SAFETY DATA SHEET

POLYURETHANE SEALER

1. Identification of the substance/preparation and company.

Product Name: Epoxy Products Polyurethane Sealer
Product Type : Single Pack Polyurethane Resin
Application : Concrete Floor Sealer
Supplier: Emergency Telephone Number: (01202) 891 899
Epoxy Products Limited, 7 Haviland Road, Ferndown Industrial Estate, Wimborne, Dorset. BH21 7RZ

2. Hazards Identification

Flammable
Toxic by inhalation
May cause sensitisation by inhalation and skin contact
Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

3. Composition/Information on Ingredients

<u>CAS/Registry No.</u>	<u>Material Description</u>	<u>% Content</u>
4098 - 71 - 9	Isophorone di-isocyanate	< 3
1330 - 20 - 7	Xylene	> 20

4. First-aid Measures

General	Effects maybe delayed. Keep effected person under observation.
Ingestion:	If accidentally swallowed. Do not induce vomiting. Seek medical advice.
Inhalation:	If inhalation causes adverse effects, remove to fresh air. If problem persists, seek medical advice.
Skin Contact	In case of contact, immediately flush with plenty of water, remove contaminated clothing. Seek medical attention.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held apart during irrigation to ensure water contact with entire surface of eyes and lids. Seek immediately medical attention..

5. Fire-fighting Measures

Extinguishing Media	Powder, foam or CO2. Larger fires: water spray, fog or mist
Special Fire Fighting Procedures	Keep run of water out of sewers and water sources. Dike for water control. Keep upwind to avoid fumes.
Unusual Fire and Explosion Hazards	May develop highly toxic or corrosive fumes if heated.

6. Accidental Release Measures

Large quantities: relevant	Contain and absorb with sand or sawdust and prevent from entering drains or watercourses; should this occur, the Local Authority must be notified.
Small quantities:	Soak up with absorbent material and remove to a chemical disposal area.

7. Handling and Storage

Handle in accordance with good industrial hygiene and safety practices.

Usage Precautions

Avoid spilling, skin and eye contact. Ventilate well avoid breathing vapours. Use approved respirator if air contamination is above acceptable level. Wear full protective clothing for prolonged exposure and/or high concentrations. Do not use contact lenses. Avoid contact with water, alcohols, amines and other materials that react with isocyanates.

Storage Precautions

Keep away from heat, sparks and open flame. Store at moderate temperatures in dry well ventilated area. Isocyanates react with water to liberate carbon dioxide. Any ingress of moisture into an isocyanate container whether full or empty, can lead to a pressure build up and subsequent explosion.

8. Exposure Controls and Personal Protection

<u>Ingredient Name</u>	<u>CAS no.</u>	<u>STD</u>	<u>LT EXP (8 hours)</u>	<u>ST EXP (15 Mins)</u>
Isophorone di-isocyanate	4098-71-9	MEL	0.02mg/m ³	0.07mg/m ³
Xylene (Mixture of isomers)	1330-20-7	OES	220mg/m ³	441mg/m ³

Ingredient Comments OES = Occupational Exposure Standard MEL = Maximum Exposure Limit

Respiratory:	Provide adequate ventilation, Use forced ventilation in confined spaces.
Hand :	Use protective gloves. Suitable types are polyvinyl alcohol, pvc or nitrile or butyl rubber.
Eye :	Eye protection designed to protect against liquid splashes should be worn.
Skin :	Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin wash with soap and water or a proprietary skin cleaner.

9. Physical and Chemical Properties

Appearance:	Clear liquid
Solubility in Water:	Immiscible
Flammability:	Flammable
Flash Point:	24°C

10. Stability and Reactivity

Stable under normal conditions, cures on contact with moisture.

11. Toxicological Information

HEALTH WARNINGS	This chemical can be hazardous when inhaled and/or touched.
INHALATION	Prolonged inhalation of high concentration may damage respiratory system. Pulmonary sensitiser. Severe pulmonary irritant. Recognised allergen
SKIN CONTACT	Irritating to skin
EYE CONTACT	May cause severe irritation to eyes. May cause temporary blindness and severe eye damage.
RESPIRATORY SYSTEM	Repeated exposure may cause chronic upper respiratory irritation, asthma, pulmonary sensitisation.
DIGESTIVE AND INTERNAL SYSTEM	Swallowing concentrated chemical may cause severe internal injury.
ROUT OF ENTRY	Inhalation, Ingestion Skin and Eye contact.
TARGET ORGANS	Respiratory system, lungs.
MEDICAL SYMPTOMS	EYE AND MUCOUS MEMBRANES. Irritation, burning, lachrymation, blurred vision after liquid splash. RESPIRATORY SYSTEM. Severe pulmonary irritation. General respiratory distress, unproductive cough. SKIN. Severe skin irritation DIGESTIVE SYSTEM. Nausea, vomiting. Severe abdominal pain.
MEDICAL CONSIDERATIONS	Skin disorders and allergies. Chronic respiratory and obstructive airway diseases. Allergic reactions may develop after inhalation of low concentrations, also several hours after exposure. Regular medical checks.

12. Ecological Information

ENVIRONMENTAL HAZARDS Dangerous for the environment if discharged into watercourses.

13. Disposal Considerations

Residues of emptied containers should be neutralised with decontaminate. Do not allow into drains or water courses or dispose of where ground or surface water may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with the regulations made under the Control of Pollution Act and the Environmental Protection Act. Dispose of in accordance with Local and National Regulations.

14. Transport Information

ROAD

ADR/RID

UN No:	1992
HAZARD CLASS (ADR)	3
PACKING GROUP	111
PROPER SHIPPING NAME	FLAMMABLE LIQUID, TOXIC, N.O.S

SEA TRANSPORT

IMDG

UN No:	1992
HAZARD CLASS (ADR)	3
PACKING GROUP	111
PROPER SHIPPING NAME	FLAMMABLE LIQUID, TOXIC, N.O.S

AIR TRANSPORT

ICAO/IATA

UN No:	1992
HAZARD CLASS (ADR)	3
PACKING GROUP	111
PROPER SHIPPING NAME	FLAMMABLE LIQUID, TOXIC, N.O.S

15. Regulatory Information



T - TOXIC



Xn - HARMFUL

Flammable

May cause sensitisation by inhalation and skin contact.
Contains isocyanates

RISK PHRASES

R10	Flammable
R23	Toxic by inhalation.
R42/43	May cause sensitisation by inhalation and skin contact
R52/53	Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment

SAFETY PHRASES

S23	Do not breathe vapour/spray
S25	Avoid contact with eyes
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of soap and water.
S36/37	Wear suitable protective clothing and gloves.
S38	In case of insufficient ventilation wear suitable respiratory equipment.
S63	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
S45	In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)
S61	Avoid release to the environment. Refer to special instructions/safety data sheet.

APPLICABLE LEGISLATION Health & Safety at Work etc. Act, 1974
Control of Substances Hazardous to Health Regulations, 1999
The Chemicals (Hazard Information and Packaging for Supply) Regulations, 2002.

16. Other Information

This Safety Data Sheet has been written to comply with Directives 91/155/EEC (the "Safety Data Sheet Directive") and 88/379/EEC (the "General Preparations Directive").

Date Issued : 07. 07.2008
Reference : SD/PS/03
Intended Use : Concrete Sealer
Product Code : Epoxy Products Polyurethane Sealer