



MATERIAL SAFETY DATA SHEET

PRODUCT: POLYESTER RESIN

IDENTIFICATION

CLASSIFICATION	:	HAZARDOUS. According to criteria of Worksafe Australia.
Product Name	:	POLYESTER RESIN
Other Names	:	UNSATURATED POLYESTER RESIN
Manufactures Product Code	:	9000
UN Number	:	1866
Name	:	
Dangerous Goods Class & Subsidiary Risk	:	3.2
Hazchem Code	:	3[Y] P.G. III
Number	:	
Poison Schedule	:	N/A
Use	:	FIBREGLASS LAMINATING RESIN

PHYSICAL DESCRIPTION/PROPERTIES

Appearance	:	Blue colour viscous liquid with strong styrene odour.
Boiling Point °C	:	145 styrene
Melting Point °C	:	N/A
Vapour Pressure 25 °C	:	Not available
Flash Point °C	:	30 C closed cup
Volatile Component	:	
Specific Gravity	:	1.080-1.100
Flammability limits:		LEL 1.1 UEL 6.1
Solubility in water	:	Insoluble

INGREDIENTS

Chemical Entity	CAS Number	Proportions w/w
Styrene Monomer	100-42-5	750

HEALTH HAZARD INFORMATION

Health Effect Acute	:	High concentration of styrene vapour. Exposure by inhalation or ingestion. Considered extremely harmful. Toxicity data for styrene - oral LD 50 (Rat) 4,370 mg/kg slightly toxic.
Swallowed	:	Moderately toxic, may cause gastric irritation and vomiting.
Eye	:	Severe eye irritant.
Skin	:	Severe skin irritant, prolonged contact may cause blistering and repeated contact defatting effect causing dryness and cracking.
Inhaled	:	Vapours can cause severe irritation to respiratory system. Styrene at 400ppm is irritating to all parts of the respiratory system. Prolonged exposure may result in headache, dizziness, fatigue, nausea and loss of appetite. At 1000ppm can lead to unconsciousness. At 10,000ppm may even cause death in less than 1 hour. Styrene is excreted fairly rapidly in the urine largely as hippuric Acid.

FIRST AID

Swallowed	:	Wash out mouth with water, and give large quantity of water to drink. Do not induce vomiting. Get medical attention immediately. Never give a drink to any unconscious person. Contact Poisons Information Centre 131 126.
Eye	:	Immediately flush with plenty of water at least 15 minutes with eye lids open.
Skin	:	Remove contaminated clothing. Wash skin with cleansing cream and finally with soap and water. Do not use solvents.
Inhaled	:	Remove to fresh air. Administer artificial respiration if difficulty in breathing. Call a Doctor if discomfort persists.
First Aid Facilities	:	General first aid facilities should be available at place of use. Cleaning cream eye wash and showers a must.
Advice to Doctor	:	Refer to toxicity data for styrene. Contact Poison Centre on 131 126.

PRECAUTION FOR USE

Exposure standards	:	Avoid ignition sources, breathing vapour or dust, skin and eye contact. Contact with oxidising agents, Peroxides, strong acids, ferrous salts, metal halides, copper alloys and rubber. Avoid temperatures above 27°C. Do not smoke, chew or eat while handling the product. Odour of styrene is readily detected at 25 ppm. At 200-400 ppm irritant to nasal passages At 400-1000ppm cause headache, nausea and dizziness. At 1000 ppm can lead to unconsciousness. Over 1000ppm may even result in death in less than one hour.
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Engineering Controls	:	Use only in well ventilated areas. Introduce local exhaust ventilation if necessary. State or Territory regulations must followed. Use Explosion proof motor.
Personal Protection	:	Wear overall. Use barrier cream. Wear chemical safety goggles and organic vapour respirator. Wear safety boots, insoluble rubber gloves lined with cotton. Use fire/explosion proof motor.
Flammability	:	Flammable liquid. Explosion can occur in the presence of high temperatures or in the presence of initiator contaminants. Store below 27°C

SAFE HANDLING INFORMATION

Storage and Transport	:	Product should be handled as a flammable material. Dangerous Goods Class 3. Store in well ventilated area, ideally below 27°C in closed containers. Store away from fire, oxidising agents, peroxides, strong acids, ferrous salts, metal halides, alkalis and strong sunlight. To avoid spontaneous polymerisation which may result in hazardous explosion or fire owing to inflammable. Product must be transported according to Federal, State or Territory regulations. Keep out of reach of children.
Spills and disposal	:	Product contains styrene a fire and health hazard. Remove all SOURCES IGNITION. wear appropriate protective equipment. Spilt material should be absorbed on dry inert material such as vermiculite, sand, sawdust or earth and dispose of by means of approved landfill in accordance with State, Territory regulations.
Fire/Explosion Hazard	:	Flammable liquid. Flash point closed cap. Abel - 30 °C extinguishing mean Dry Chemical BCF or Carbondioxide or Foam water spray may be used to cool containers but water jet may spread the fire because of its force. Styrene polymers at high temperature and if this occurs in closed containers there is a high risk of explosion. Combustion product produce toxic fumes e.g. carbon monoxide and styrene.
Contact Point:		Mr Les Baker NORGLASS LABORATORIES PTY. LIMITED Poisons Information Centre Nuplex Industries P/L

The information contained in this material safety sheet is based on tests carried out by our research centres and data selected from literature, but shall in no event be held to constitute or imply any warranty or understanding. No liability whatsoever can be accepted with regard to handling, processing or use of the product or products concerned, which in all cases be employed with due regard to all relevant regulations and/or legislation in the country or countries concerned.

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