

NIGHTINGALE SUPPLY

PO BOX 712

HAMILTON CENTRAL QLD 4007

Phone: (07) 3260.6544 Fax: (07) 3260.6646

MATERIAL SAFETY DATA SHEET

THIS PRODUCT IS CLASSIFIED AS **HAZARDOUS** ACCORDING TO
CRITERIA OF **NOHSC**

IDENTIFICATION SECTION:

Product Name : **FIBREGLASS POLYESTER RESIN
LAM 25'**
Shipping Name : RESIN SOLUTION
U.N. Number : 1866
DG Class : 3
Hazchem : 3 [Y]
Poisons Schedule : S5
Packaging Group : 111
E.P.G. : 3A1
Use(s) : Composites fabrication

PHYSICAL DESCRIPTION / PROPERTIES:

Appearance: Clear to hazy liquid.
Boiling Point : 145°C *
Vapour pressure : 0.6kPa at 20°C *
Specific Gravity : 0.95 – 1.15 (H2O=1) Dependent on non-volatile
content.
Flash Point : 31°C TCC *
Flammability Limits LEL : 1.1% *
Flammability Limits UEL : 6.1% *
Solubility in water : insoluble
Evaporation rate : 0.49 (Butyl acetate = 1) *
Vapour Density : 3.6 (Air = 1) *
Odour : Characteristic styrene
Colour : May be tinted
Form : Liquid
Stability : Stable under normal conditions
Haz. Polymerization : May occur if contaminated, or at elevated temp.
Materials to avoid : Alkylation catalysts and strong acids (H2S04,
(H3P04, BP3, A1C13), halogens and hydrogen
halides. Contact with copper and copper alloys.
Oxidising agents.
Other Information : * for Styrene

INGREDIENTS:

Chemical Entity	CAS No.	Proportion
Polyester resin	Proprietary	45-65%
Styrene Monomer	100-42-5	35-55%
Fumed silica	14808-60-7	0-1.5%
Metal Naphthenates and/or Octoates	Proprietary	0-1%
Quinone and/or phenolic Inhibitors	Proprietary	0-0.5%
Amine and/or aniline derivatives	Proprietary	0-0.5%

HEALTH HAZARD INFORMATION:
HEALTH EFFECTS

Acute Swallowed: May result in irritation, vomiting and depression.

Acute Eye Contact: A severe eye irritant.

Acute Skin: A severe skin irritant. Prolonged contact with skin may cause blistering, and repeated contact may have a defatting effect causing dryness and cracking.

Acute Inhalation: Vapour can cause severe irritation to the respiratory tract. Styrene at 400ppm is irritating to all parts of the respiratory tract. Styrene possesses narcotic-like properties; excessive exposure may result in headache, dizziness, incoordination, fatigue, nausea, loss of appetite and loss of consciousness.

Chronic : Detailed toxicological information is available on request.

FIRST AID:**Swallowed:**

DO NOT INDUCE VOMITING. Give a glass of water. Seek immediate medical assistance.

Eyes:

Irrigate with copious quantities of water for (15) minutes. Seek medical assistance.

Skin:

Wash affected area extremely thoroughly with soap and water. Remove contaminated clothing, including shoes. Seek medical assistance if symptoms persist.

Inhalation:

Using proper respiratory protection, immediately remove the affected person from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Seek immediate medical assistance.

First Aid Facilities:

Eye wash fountains and safety showers should be easily accessible.

Advice to Doctor:

Aspiration may cause pneumonitis. Administration of vegetable oil with or without activated charcoal is recommended for initial treatment of irritant effect on the alimentary canal.

OTHER HEALTH HAZARD INFORMATION:

Carcinogenicity: Styrene is classified as 'possibly carcinogenic to humans' by the International Agency for Research on Cancer (IARC). Detailed toxicological information is available on request.

PRECAUTIONS FOR USE:**Exposure Standards:**

Name:	STEL (mgm3)	STEL (ppm)	TWA (mgm3)	TWA (ppm)	Footnote
Styrene Monomer	426	100	213	50	
Fumed silica			0.2		

Other Exposure**Info:**

Exposure Standards for other ingredients not Established.

Eng. Controls:

Use in well ventilated area only. Provide Ventilation to control exposure limit below Exposure Standard.

Personal Protection:

Respiratory Type (as1716):

Where concentrations in air may exceed the recommended exposure limits, or work practice or other means of exposure reduction are not adequate, approved respirator may be necessary to prevent over exposure by inhalation.

Glove type:

Chemical resistant gloves.

Eye Protection:

Safety glasses or chemical goggles.

Clothing/Footwear:

Long sleeved overalls, safety boots.

SAFE HANDLING INFORMATION:**FLAMMABILITY:****FIRE HAZARDS:**

Flammable. Keep away from heat, sparks or naked flames.

STORAGE AND TRANSPORT:**Storage Precautions:**

Store in a well ventilated area, ideally below 27°C in a closed container and dry area to avoid spoilage. Open drums slowly to relieve any internal pressure. In bulk storage check vents and flame arrestors for plugging and the formation of polymer. Ground all connections, containers etc when using. Store away from sources of heat or ignition. Store away from oxidizing agents. Avoid prolonged storage over 38°C.

Transport: FLAMMABLE LIQUID. CLASS 3.

Special Shipping Information: IMDG 3.3 Marine Pollutant

Proper Shipping Name: RESIN SOLUTION

EPG Number: 3A1

IERG Number: 14

Packaging Method: 5.9.3RT1,RT7

Spills and Disposal:

Extinguish or remove all sources of ignition. Increase ventilation. Clear area of all unprotected personnel. Wear appropriate protective equipment. Do not contaminate streams, rivers, or water courses. Do not flush drains or sewers. Inform local authority if liquid enters drains, sewers, streams etc. Shut off sources of leak if safe to do so. Dike and contain spill with sand or earth.

MINOR: Absorb the liquid with sand, earth or other inert absorbent. Place used absorbent in suitable, sealable, labeled containers. Keep away from heat, naked flame or sparks.

MAJOR: Take up liquid with vacuum truck or absorb with sand, earth or other inert absorbent. Place used absorbent in suitable, sealable, labeled containers. Keep away from heat, naked flame or sparks.

Disposal:

Dispose of according to relevant local, state and federal government regulations.

Other Disposal Info:

May be treated to convert to solid resin.

Fire/Explosion Hazard:

Combustible liquid. This product will burn if exposed to fire. Drums may rupture when exposed to fire conditions.

Hazard Combustion Products:

Under fire conditions this product will emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide and ammonia.

Hazardous Decomposition or Byproducts:

Above 260°C this product will decompose and generate ammonia.

Extinguishing Media:

Use water fog, foam or dry agent.

Hazchem Code:

None allocated.

OTHER INFORMATION:

Toxicology
Information on Ecological effects
Environ. Protection

No toxicology data available for this product.
This product is harmful to aquatic organisms.
Do not allow product to enter drains, waterways
Or sewers.

The data in this Material Safety Data Sheet has been compiled from our Suppliers Material Safety Data Sheets. This data relates only to the designated product and not to the use of said product in combination with other materials. Because conditions and circumstances of use of the product are beyond our control and any summary of data such as is represented by this Material Safety Data Sheet is inherently incomplete, Nightingale Supply makes no warranty about the accuracy of the data herein and assume no liability for the use of such data. Responsibility for proper precautions and safe use of the product lies with the user.