

JALASANJ Co Ltd

MATERIAL SAFETY DATA SHEET

MSDS

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:..... Stone Adhesive (Polyester Based)

MANUFACTORER:..... JALASANJ

MANUFACTORER:

JALASANJ Company Ltd
No6, Mokhtari St, 17shahrivar St, Shadabad
Fath Highway (old karaj road) at 5km,
TEHRAN, IRAN
Phone Number: +98-21-66802834
www.jalasanj.com

2. HAZARDS IDENTIFICATION

EYE CONTACT:..... May cause irritation. Liquid splashes may result in more serious injuries. May cause lachrymation (tears).

SKIN CONTACT:..... Prolonged or frequent contact may cause defatting and dryness of the skin with resultant irritation and possible dermatitis. Styrene may be absorbed through the skin in toxic amounts.

INHALATION:..... Vapors may cause mucous membrane irritation and upper respiratory discomfort. High concentrations may result in headache, nausea, insensibility and other central nervous system effects. Repeated exposure to high concentrations may cause liver and kidney damage.

INGESTION:..... May cause gastrointestinal disturbances, pain and discomfort.

TARGET ORGAN EFFECTS:..... Central Nervous System (CNS) Depression:
Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea,

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS #</u>	<u>CONCENTRARION (%)</u>
Polyester Resin	N/A	60 - 65
Styrene	100-42-5	30 - 35

4. FIRST AID MEASURES

FIRST AID FOR EYES:..... Flush with copious amounts of water for 15 minutes. Seek immediate medical aid.

FIRST AID FOR SKIN:..... Remove contaminated clothing. Wash with soap and water. Consult a physician if any signs or symptoms described in this document occur. Wash contaminated clothing.

FIRST AID FOR INHALATION:..... Remove victim from exposure. If victim is unconscious, administer artificial respiration and/or oxygen as needed. Seek medical aid.

FIRST AID IF SWALLOWED:..... DO NOT INDUCE VOMITING (aspiration hazard). Seek immediate medical aid.

5. FIRE FIGHTING MEASURES

Caution: Flammable Liquid

FLASH POINT:..... >31 °C

Flammable Class:..... 1C

EXTINGUISHING MEDIA:..... Water Spray, foam, dry chemical, carbon dioxide or any Class B extinguishing agent.

SPECIAL FIRE FIGHTING PROCEDURES:..... Firefighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus and full protective clothing. Equipment should be thoroughly decontaminated after use.

UNUSUAL FIRE AND EXPLOSION HAZARDS:..... At elevated temperatures, such as in a fire, polymerization may take place. If polymerization takes place in a closed container, there is the possibility of violent rupture of the container. Product vapors may form an explosive mixture in air.

6. ACCIDENTAL RELEASE MEASURES

Procedure for Cleanup:..... Remove all sources of ignition. Ventilate area. Absorb spill with an absorbent material such as sawdust, vermiculite or sand and place in a closed container. If large spill, dike the area to prevent this material from entering water systems or sewers. Dispose of hazardous waste only in a certified facility for hazardous waste handling in accordance with federal, state, and local regulations.

7. HANDLING AND STORAGE

Read and observe all precautions on product label. Refer to product label or manufacturers technical bulletins for the proper use and handling of this material. Do not use or store near flame, sparks or hot surfaces. Use only in well ventilated area. Keep container closed. Do not weld, heat or drill container. Emptied container may still contain hazardous or explosive vapor or liquid.

Do not store in temperatures greater than 35°C

Shelf Life: One (1) year when stored at room temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:..... Wear safety glasses, face shield or chemical goggles. Other Use Precautions: Eye wash station and safety shower should be available for use in emergency situations.

Protective Clothing:..... Wear appropriate clothing and impervious gloves to prevent skin contact.

Respiratory Protection:..... If a TLV or PEL listed in this data sheet is exceeded, then suitable respiratory protection must be worn to prevent overexposure. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited.

Engineering Controls:..... Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:..... Liquid
COLOR:..... Light Yellow
ODOR:..... Styrene
BULK DENSITY:..... 1.63 g/cm³ @ 24°C
VISCOSITY:..... 13000 cps

10. STABILITY AND REACTIVITY

STABILITY:..... Material is stable

HAZARDOUS POLYMERIZATION:..... YES

MATERIALS AND CONDITIONS TO AVOID

Conditions to avoid:..... Heat and direct sunlight

Materials to avoid:..... Strong acids and oxidizing agents

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS

Heating of this material to decomposition may cause the emission of irritating, acrid fumes.

11. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:..... This material is toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water.

12. DISPOSAL CONSIDERATIONS

This material has been tested and found to have a flash point below 60°C. If discarded, this material and containers should be treated as hazardous wastes (unless fully polymerized) based on the characteristic of ignitability as defined under the federal RCRA regulations (40 CFR 261). Disposal of this material and its container requires compliance with applicable labeling, packaging, and record keeping standards. Extreme care should be taken to ensure that it is disposed of only in a facility permitted for disposal of hazardous wastes. Dispose of container and unused contents in accordance with federal, provincial, state and local requirements.

13. TRANSPORTATION INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION):

Technical Name: Resin Solution
Hazard Class: 3
NA/UN Number: 1866
Packing Group: III
Please refer to the DOT regulations for more information

International Air Transport Association (IATA)

Technical Name: Resin Solution
Hazard Class: 3
NA/UN Number: 1866
Packing Group: III
ERG Code: 3L
Please refer to the IATA regulations for more information

International Maritime Organization (IMO)

Technical Name: Resin Solution
Hazard Class: 3
NA/UN Number: 1866
Packing Group: III
EmS: F-E, S-E
Please refer to the IMO regulations for more information.

14. REGULATOR INFORMATION

Federal Regulations:

Sara Title III - Section 311

Immediate (Acute) Health Effects: Yes
Chronic (Delayed) Health Effects: Yes
Fire Hazard: Yes
Sudden Release of Pressure Hazard: No
Reactivity: Yes

Sara Title III - Section 313

Styrene monomer (100-42-5)

State Regulations:

Proposition 65 Statement: Styrene is NOT currently listed as a carcinogen by California's Safe Drinking Water and Toxic Enforcement Act of 1986.

Styrene, in the presence of air and high temperature or prolonged exposure to styrene/air mixture to sunlight, can react to form styrene oxide. Styrene oxide is a chemical known to the state of California to cause cancer.

Comments: SCAQMD Rule 1162 establishes specific process, control, housekeeping, and recordkeeping requirements for fabrication operations using polyester resin materials. It is the responsibility of the fabricator to ensure compliance with these requirements.

Canada:

Canadian WHMIS Classification: B2, D2A, D2B

15. OTHER INFORMATION

PREPARED BY:..... JALASANJ
SUPERSEDES DATE:..... Jul 4,2015

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