

MATERIAL SAFETY DATA SHEET

Trade Name: ISOPHTHALIC RESINS FT 402 (Polyester Resin)

Chemical Family: Unsaturated Polyester

Formula: Proprietary

Manufacturer: ASHLAND CHEMICAL
2620 Royal Windsor Drive
Mississauga, Ont. L5J 4E7

Supplier: COAST FIBER-TEK
1306 Boundary Road
Burnaby, BC V5K 4T6
Tel.# (604) 294-8116

Emergency Phone #'s: 1-800-ASHLAND
or 1-800-274-5263

Transportation EMG. Phone # CANUTEC (613) 996-6666
(604) 930-0650

HAZARDOUS INGREDIENTS:

Styrene Monomer: 46-52 % CAS # 100-42-5

Exposure Limits:

Styrene: ACGIH TLV 85 mg/m³ – TWA (Skin); ACGIH TLV 20 ppm – TWA (Skin)
ACGIH TLV 170 mg/m³ – STEL (Skin); ACGIH TLV 40 ppm STEL (Skin)

PHYSICAL DATA:

Appearance & Odour: Red-purple liquid, pungent odour

Odour Threshold: N/A

Vapour Pressure: (mm Hg) approx 4.5 at 20 deg. C

Vapour Density: 3.6

Solubility in Water: insoluble

Specific Gravity: 1.05 – 1.2 at 25 deg. C

Evaporation Rate: Slower than ether.

Boiling Point: For product -17.7°C @ 760 mmHg

Freezing Point: -31°C

pH: not applicable

FIRE & EXPLOSION DATA:

Flashpoint & Method: 26.60 – 32.2°C (SETAFLASH CC)

Flammable Limits: LFL 1.1% (styrene), UFL 6.1% (styrene)

Extinguishing Methods: Foam, water fog, CO², dry chemical.

Special Equipment & Procedures: Self-contained breathing apparatus and complete protective clothing

REACTIVITY DATA:

Conditions Contributing to Instability: Heat and direct sunlight, peroxides and polymerization catalysts.

Incompatible Substances: Strong OXIDIZING AGENTS, Strong ACIDS

Hazardous Decomposition Products: Irritating Acrid fumes, CO, CO²

Hazardous Polymerization: May occur with excess heat or direct sunlight

HEALTH HAZARDS DATA:

NOTE: Health studies have shown that exposure to chemicals pose potential risks which may vary from person to person. Exposure to liquids, vapours, mists or fumes should be minimized.

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FT 402 - Pg 2

PRINCIPAL HEALTH HAZARDS:

- Skin Contact: Prolonged/repeated exposure may cause irritation and drying or flaking of skin with possible dermatitis.
- Eye Contact: May cause irritation producing tears. May cause slight temporary corneal injury.
- Ingestion: May cause gastro-intestinal disturbances, pain and discomfort.
- Inhalation: May cause irritation and upper respiratory tract discomfort, headache, nausea, insensibility and other nervous system effects. Repeated exposure to high concentrations may cause liver and kidney damage.
- Chronic Effects: Contains styrene, a possible carcinogen.

FIRST AID PROCEDURES:

- Skin: Avoid direct contact with this chemical, wash with soap and water, seek medical attention if a rash persists
- Eyes: Flush with warm water for 20 minutes, obtain medical attention
- Ingestion: **DO NOT INDUCE VOMITING**, have victim drink 8 to 10 oz of water to dilute material in stomach. Seek medical attention.
- Inhalation: Remove victim to fresh air if ill effects develop. If effects persist, administer oxygen, apply A/R if necessary and seek medical attention.

PREVENTIVE MEASURES:

- Skin: Always apply appropriate barrier cream to exposed skin. Wear impervious gloves (butyl rubber), coveralls and safety footwear.
- Eyes: Chemical proof goggles or full face respirator if vapours cause eye irritation.
- Ingestion: Wash thoroughly before consuming food stuffs.
- Inhalation: Use only in well ventilated areas or use NIOSH approved respiratory protection with organic vapour cartridges.

CONTROL MEASURES & PRECAUTIONS

Keep container tightly closed. **Do not** consume food, drink or tobacco in work area or material storage areas. Use caution and personal cleanliness to avoid skin and eye contact. Avoid breathing vapours of heated materials. Use paper covering absorbent wipes and suitable disposable containers in work area.

SPILL, LEAK & DISPOSAL METHODS

Review fire and explosion hazards and safety precautions before proceeding with clean up. Restrict access to area. Remove all sources of ignition and ventilate area. Absorb spill with absorbent material such as sawdust, vermiculite or sand and place material in a closed container. In large spills dike area to prevent this material from entering water systems or sewer.

DISPOSAL METHOD

Dispose only in a facility permitted to dispose of hazardous waste by Federal, Provincial and Municipal regulations.

SHIPPING INFORMATION

Shipping Name: Flammable Liquid NOS (styrene)
Hazard Class: 3
UN/PIN #: 1993, III
Flashpoint: 26.60 – 32.2°C
WHMIS: B2, D2A, D2B, F

The information contained herein is based on data that we believe to be accurate. No warranty either expressed or implied is made. This information is offered solely for your consideration interpretation and information.

Preparation Date: January 22, 1993
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N/A = Not Available