

MATERIAL SAFETY DATA SHEET

Trade Name: HETRON 197 P

Generic Name: Unsaturated Polyester Resin

Produce Use: Laminating Resin

Manufacturer: ASHLAND
P.O. Box 2219
Columbus, OH 43216

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: 41.5% CAS # 100-42-5

Polymer (s): 55-59% Trade Secret

Cobalt compounds 0.1-0.1%

Exposure Limits: Styrene: LD 50 Rat: 2,650 mg/kg, LC 50 Rat: 2800 ppm, 4 h

PHYSICAL DATA:

Appearance & Odour: purple liquid, pungent odour

Vapour Pressure: 8.53 hPa @ 25 °C

Vapour Density: (>) 1 (air = 1)

Density: 1.078 g/cm³ @ 20°C

Liquid Density: 1.139kg/l @ 25°C

Evaporation Rate: Slower than ethyl ether

Boiling Point: 145°C

Freezing Point: N/A

pH: N/A

FIRE & EXPLOSION DATA:

Flashpoint & Method: 29.4°C

Flammable Limits: LFL 1.1%, UFL 6.1

Extinguishing Methods: Regular foam, water fog, carbon dioxide, dry chemical.

Special Equipment & Procedures: Vapours are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Self contained breathing apparatus and complete protective clothing

REACTIVITY DATA:

Conditions Contributing to Instability: Heat and direct sunlight

Incompatible Substances: Avoid contact with acids, aluminum chloride, excessive heat, halogens, iron chloride, metal salts, peroxides, strong alkalis, strong oxidizing agents.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide and various hydrocarbons

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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PRINCIPAL HEALTH HAZARDS:

- Skin Contact:** Prolonged/repeated exposure may cause irritation, burning, 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 monomer, 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 immediate 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. Protect from moisture. Store in temperatures less than 80EF. 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. Contain spill to prevent liquid from entering sewers or waterways. Recover free liquid and use an absorbent material (i.e. sand, vermiculite) to soak up balance. Place in suitable container for disposal.

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: 29.4°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:** February 22, 1998
Prepared by: Nigel Poore, 1306 Boundary Road, Burnaby, BC V5K 4T6
Telephone #: (604) 294-8116
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N/A = Not Available