MSDS

SECTION 1 – Chemical Product and Company Identification

U S CHEMICAL & PLASTICS
An Alco Industries Company
600 Nova Drive SE
Massillon, OH 44646
PH 330-830-6000 - FAX 330-830-6005

For Chemical Emergency:
CHEMTREC: 1-800-424-9300
CANUTEC: 1-613-996-6666
(For Canada call collect)

PRODUCT NAME:	**All Resin**
PRODUCT CODE:	**(15001), 58215, 58220**
SYNONYM/CROSS REFERENCE:	**Polyester Resin**
SCHEDULE B NUMBER:	**3907.91.0000**

SECTION 2 – Hazard Identification

OVEREXPOSURE EFFECTS:
ACUTE EFFECTS:
EYES: Contact with eyes can cause irritation, redness, tearing, blurred vision, and/or swelling.
SKIN: Contact with skin can cause irritation, (minor itching, burning and/or redness), Dermatitis, defatting may be readily absorbed through the skin.
INHALATION: Inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and/or asphyxiation. Aspiration of material into lungs may result in chemical pneumonitis which can be fatal.
INGESTION: Ingestion can cause gastrointestinal irritation, nausea, vomiting, diarrhea.

PRIMARY ROUTES OF EXPOSURE: skin, inhalation, eyes

SECTION 3 – Composition, Information or Ingredients

INGREDIENTS	WGT%	CAS #
Styrene	30-35%	100-42-5
Amorphous Silicon Dioxide	0-5%	7631-86-9

SECTION 4 – First Aid Measures

INHALATION: If inhaled, remove victim from exposure to a well-ventilated area. Make them comfortably warm, but not hot. Use oxygen or artificial respiration as required. Consult a physician.
SKIN: For skin contact, wash promptly with soap and excess water.
EYES: For eye contact, flush promptly with excess water for at least fifteen minutes. Consult a physician.
INGESTION: If ingested, do not induce vomiting. Give victim a glass of water. Call a physician immediately.

SECTION 5 – Fire-Fighting Measures

FIRE EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam
SPECIAL FIRE FIGHTING PROCEDURES: Fight like a fuel oil fire. Cool fire exposed containers with water spray. Firefighter should wear OSHA/NIOSH approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: Closed containers exposed to high temperatures, such as fire conditions may rupture.

SECTION 6 – Accidental Release Measures

SPILLS, LEAK OR RELEASE: Ventilate area. Remove all possible sources of ignition. Avoid prolonged breathing of vapor. Contain spill with inert absorbent. MARINE POLLUTANT: Contains ten percent or more of a marine pollutant

SECTION 7 – Handling and Storage

STORAGE AND HANDLING: Use with adequate ventilation. Avoid contact with eyes and skin. Avoid breathing vapors. Do not store the product above 100°F/38°C. Do not flame, cut, braze weld or melt empty containers. Keep the product away from heat, open flame, and other sources of ignition. Avoid contact with strong acids, alkalis, and oxidizers.

SECTION 8 – Exposure Controls and Personal Protection

RESPIRATORY PROTECTION: If component TLV limits are exceeded, use NIOSH/MSHA approved respirator to remove vapors. Use an air-supplied respirator if necessary.
VENTILATION: Use adequate ventilation in volume and pattern to keep TLV/PEL below recommended levels. Explosion-proof ventilation may be necessary.
PROTECTIVE GLOVES: To prevent prolonged exposure use rubber gloves; solvents may be absorbed through the skin.
EYE PROTECTION: Safety Glasses or goggles with splash guards or side shields.
OTHER PROTECTIVE EQUIPMENT: Wear protective clothing as required to prevent skin contact.

INGREDIENTS	CAS #	TLV/PEL
Styrene	100-42-5	ACGIH TLV 20 ppm STEL 100 ppm OSHA PEL 100 ppm CPEL 200 ppm
Amorphous Silicon Dioxide	7631-86-9	ACGIH TWA 10 mg/m3 Respirable 3 mg/m3 OSHA PEL 6 mg/m3

SECTION 9 – Physical and Chemical Properties

APPEARANCE: Amber or purple opaque liquid
SPECIFIC GRAVITY: 1.08
FLASH POINT: 89°F/32°C Seta Flash Closed cup
LOWER FLAMMABLE LIMIT %: N/E
UPPER FLAMMABLE LIMIT %: N/E
VAPOR PRESSURE (mmHG): Heavier than air
BOILING POINT: N/Av
VAPOR DENSITY: Heavier than air
EVAPORATION RATE (Ethyl Ether = 1): Slower than Ethyl Ether
VOLATILES BY WEIGHT: Approximately 34%
SOLUBILITY IN WATER: None
VOC: Grams/Litre = less exempts 384 lbs/gal = less exempts 3.21
loss upon curing 1.6 g/l

SECTION 10 – Stability and Reactivity

STABILITY: Stable
CONDITIONS TO AVOID: Open flames, sparks, heat, electrical and static discharge.
INCOMPATIBILITY MATERIALS TO AVOID: Strong acids, alkalis, oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide, and Carbon.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 – Toxicological Information

CHRONIC EFFECTS:
Overexposure to this material has apparently been known to cause the following effects in lab animals: Eye, skin, lung, and central nervous system damage.

CARCINOGEN: YES __ NO X
TERATOGEN: YES __ NO X
MUTAGEN: YES __ NO X

STYRENE CARCINOGENICITY
Styrene is listed by IARC to be a possible carcinogen. Styrene studies have shown that Styrene causes cancer in certain laboratory animals. However, there is insufficient evidence to conclude that Styrene is a human carcinogen.

SECTION 12 – Ecological Information

MARINE POLLUTANT: Contains ten percent or more of a marine pollutant

SECTION 13 – Disposal Considerations

WASTE DISPOSAL: Dispose of in accordance with local, state, and federal regulations.

SECTION 14 – Transport Information

For Ground Transport: In USA with or without hardener
Consumer Commodity ORM-D

For Air Transport: With hardener
Must be re-boxed to UN specified packaging in quantities of no more than 5 kg per fiberboard box
UN3269, Polyester Resin Kit, 3, PGIII
Packing Instruction 312

For Air Transport: Without hardener
Must be reboxed to UN specified packaging
UN1866, Resin Solution, 3, PGIII
Packing instruction 309, 310

For Ocean Transport: With hardener
UN3269, Polyester Resin Kit, 3, PGIII, F/P 31.7°C
Marine Pollutant (Contains Styrene Monomer, stabilized)
EMS # F-E, S-D, In limited quantity
For Ocean Transport: Without hardener
UN1866, Resin Solution, 3, PGIII, F/P 31.7°C Marine Pollutant (contains Styrene Monomer, stabilized)
EMS# F-E, S-E, In limited quantity

SECTION 15 – Regulatory Information

CALIFORNIA PROPOSITION 65:
Trace amounts of some chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm may be present in this product.

SECTION 313 SUPPLIER NOTIFICATION:
This product contains the following toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

CHEMICAL NAME	CAS	% BY WGT
Styrene	100-42-5	30-35%

This information must be included in all MSDS that are copied and distributed for this chemical.

SECTION 16 – Other Information

HMIS RATING:	Health	2	4 = Extreme
	Fire	3	3 = High
	Reactivity	1	2 = Moderate
			1 = Slight
			0 = Insignificant
	Personal Protection - See Section VIII		

MSDS

ABBREVIATIONS

IARC = International Agency for Research on Cancer
ACGIH = American Conference of Governmental Industrial Hygienists
NIOSH = National Institute of Occupational Safety and Health
TLV = Threshold Limit Value
PEL = Permissible Emission Level
DOT = Department of Transportation
NTP = National Toxicology Program
N/AV = Not Available
N/AP = Not Applicable
N/E = Not Established
N/D = Not Determined

PREPARED BY: U S CHEMICAL & PLASTICS
An Alco Industries Company
600 NOVA DRIVE SE
MASSILLON, OH 44646

TELEPHONE NBR: 330-830-6000
FAX NBR: 330-830-6005

DATE REVIEWED: August 12, 2008
DATE REVISED: December 12, 2008
REVISION: Section 9

The information in the Material Safety Data Sheet has been compiled from our experience and from data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of the safety precautions as may be necessary. We reserve the right to revise Material Safety Data Sheets from time to time as new technical information becomes available. The user has the responsibility to contact the Company to make sure that the MSDS is the latest one issued.