

HAZARD IDENTIFICATION DATA SHEET

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: PREMIUM POLYESTER RESIN, SMC COMPATIBLE 1401, 1402, 1403, 1406, 1407, 01401, 01402, 01403, 01406, 81101, 81102, 81103

SECTION II - HAZARDOUS INGREDIENTS & OTHER COMPONENTS

INGREDIENT	% BY WEIGHT	EXPOSURE LIMITS	CAS #
STYRENE MONOMER IN POLYESTER RESIN	<35	50 PPM-PEL/TLV	100-42-5
METHYL METHACRYLATE	<10	100 PPM-PEL	
POLYESTER RESIN	<30	NE	28679-80-3

SECTION III - PHYSICAL DATA

BOILING POINT: 293 DEG F (STYRENE) 1.11	SPECIFIC GRAVITY:
VAPOR PRESSURE: (MM HG.) (STYRENE) = 4.5 <35	PERCENT VOLATILE BY WT.:
VAPOR DENSITY (AIR=1): (STYRENE) 3.6 (ETHER=1): LESS	EVAPORATION RATE
SOLUBILITY IN WATER: NEGLIGIBLE HAZY	APPEARANCE/ODOR: AMBER,

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: (STYRENE) 90 DEG F (TCC)	FLAMMABLE LIMITS:
LEL-1.1% UEL-6.1%	
EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL (SMALL FIRES); FOAM AND WATER FOG (LARGE FIRES)	
SPECIAL FIRE FIGHTING PROCEDURES: DENSE SMOKE SERIOUSLY LIMITS VISIBILITY. VENT SMOKE AND USE GAS MASK OR REMOTE AIR SUPPLY. WEAR MSHA/NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS WITH PROTECTIVE EQUIPMENT.	
UNUSUAL FIRE AND EXPLOSION HAZARDS: ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME.	

SECTION V - REACTIVITY DATA

STABILITY: STABLE
 INCOMPATIBILITY (MATERIALS TO AVOID): STRONG ACIDS, PEROXIDES, AND OTHER OXIDIZING AGENTS
 HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, LOW MOLECULAR WEIGHT HYDROCARBONS, ORGANIC ACIDS
 HAZARDOUS POLYMERIZATION: MAY OCCUR
 CONDITIONS TO AVOID: UNREGULATED CONTACT WITH ORGANIC PEROXIDES,

SECTION VI - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION. INCREASE VENTILATION TO MAXIMIZE VAPOR DISPERSAL. DIKE LARGE SPILLS TO PREVENT RUNOFF INTO SEWERS OR WATERWAYS. THIS MATERIAL MAY BE REMOVED BY EMPLOYING ORDINARY PHYSICAL MEANS, I.E., SHOVELING, WIPING. SWEEP/CLEAN WITH INERT MATERIALS, SUCH AS SAND, VERMICULITE AND PLACE IN CLOSED CONTAINER FOR DISPOSAL AS SOLID WASTE. WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. IF DISCARDED, THIS MATERIAL AND CONTAINERS ARE CONSIDERED RCRA HAZARDOUS WASTES BASED ON THE CHARACTERISTIC OF IGNITABILITY (40CFR 261.21).

SECTION VII - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY:

INHALATION
SKIN ABSORPTION

EFFECTS OF OVEREXPOSURE:

ACUTE: MAY CAUSE EYE AND SKIN IRRITATION. VAPORS MAY CAUSE MUCOUS MEMBRANE IRRITATION AND UPPER RESPIRATORY TRACT DISCOMFORT.
CHRONIC: REPEATED EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY CAUSE LIVER AND KIDNEY DAMAGE.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: INDIVIDUALS WITH CHRONIC RESPIRATORY CONDITIONS (I.E., ASTHMA, CHRONIC BRONCHITIS, EMPHYSEMA, ETC.) MAY BE ADVERSELY AFFECTED BY ANY FUME OR AIRBORNE PARTICULATE MATTER EXPOSURE.

CARCINOGENICITY: FOR HAZARD COMMUNICATION PURPOSES UNDER OSHA STANDARD 29CFR 1910.1200, STYRENE IS LISTED AS POSSIBLY CARCINOGENIC TO HUMANS (CLASS 2B) BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC). NEITHER DATA FROM VARIOUS LONG TERM ANIMAL STUDIES NOR FROM EPIDEMIOLOGICAL STUDIES OF WORKERS EXPOSED TO STYRENE PROVIDE ADEQUATE BASIS TO CONCLUDE THAT STYRENE IS CARCINOGENIC

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK IMMEDIATE MEDICAL AID.

SKIN: WASH WITH SOAP AND WATER.

INHALATION: REMOVE VICTIM FROM EXPOSURE. IF UNCONSCIOUS, ADMINISTER ARTIFICIAL RESPIRATION AND/OR OXYGEN AS NEEDED. SEEK

INGESTION: DO NOT INDUCE VOMITING (ASPIRATION HAZARD). SEEK IMMEDIATE MEDICAL AID.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: USE ADEQUATE VENTILATION. NIOSH/MSHA APPROVED ORGANIC VAPOR/DUST RESPIRATOR TO AVOID INHALATION OF EXCESSIVE AIR CONTAMINANTS.

VENTILATION: LOCAL EXHAUST VENTILATION SHOULD BE USED TO CONTROL THE EMISSION OF AIR CONTAMINANTS. GENERAL DILUTION VENTILATION MAY ASSIST WITH THE REDUCTION OF AIR CONTAMINANT CONCENTRATIONS.

EYE PROTECTION: SAFETY GLASSES RECOMMENDED.

PROTECTIVE GLOVES: POLYVINYL ALCOHOL AND POLYETHYLENE HAVE BEEN RECOMMENDED FOR PROTECTION AGAINST MATERIALS OF THIS CHEMICAL CLASS.

OTHER PROTECTIVE EQUIPMENT: SAFETY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE.

HYGIENIC PRACTICES: CLEAN HANDS WITH SOAP AND WATER AFTER EVERY USAGE.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: AVOID PROLONGED OR REPEATED CONTACT WITH THE SKIN. AVOID EYE CONTACT. STORE IN A COOL, DRY AREA. DO NOT STORE IN DIRECT SUNLIGHT. WORK WITH ADEQUATE GENERAL AND LOCAL EXHAUST VENTILATION TO MINIMIZE EXPOSURE TO VAPORS. BOND AND GROUND CONTAINERS FOR TRANSFER OF THIS PRODUCT TO PREVENT STATIC SPARKS. STYRENE VAPORS ARE UNINHIBITED AND MAY CAUSE BLOCKAGE OF VENTILATION VENTS DUE TO POLYMERIZATION. PERIODIC INSPECTION MAY BE NECESSARY TO PREVENT BLOCKAGE. AVOID IMPROPER ADDITION OF PROMOTERS AND OXIDIZING AGENTS.

SECTION X - SUPPLEMENTAL INFORMATION

SARA TITLE III: STYRENE IS LISTED AS A SARA TOXIC CHEMICAL AND IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.
TSCA: ALL INGREDIENTS IN THIS PRODUCT ARE LISTED IN THE TSCA INVENTORY.
HMIS: HEALTH - 2 FLAMMABILITY - 3 REACTIVITY - 1

PREPARED/REVISED BY: SAFETY/ENVIRONMENTAL SERVICES

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(1) THE RECOMMENDED PERMISSIBLE EXPOSURE LIMITS (PELS) INDICATED IN SECTION II REFLECT THE LEVELS REVISED BY OSHA IN 1989. THE 1989 LEVELS HAVE BEEN REPEALED BY THE 11TH CIRCUIT COURT OF APPEALS. IT IS RECOMMENDED THAT THE LOWER PELS ARE OBSERVED TO ENSURE WORKER PROTECTION.