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ARISTECH CHEMICAL CORPORATION -- UNSATURATED POLYESTER RESIN -- 8040-00-200-3793

Product ID: UNSATURATED POLYESTER RESIN MSDS Date:09/01/1990 FSC:8040 NIIN:00-200-3793 MSDS Number: BVFWD === Responsible Party === Company Name: ARISTECH CHEMICAL CORPORATION Address:600 GRANT STREET City:PITTSBURGH State:PA ZIP:15230-0250 Country:US Info Phone Num:412-433-7654 Emerg ency Phone Num:412-433-7654/412-433-5811 CAGE:94977 === Contractor Identification === Company Name: ARISTECH CHEMICAL CORPORATION Address:600 GRANT STREET Box:City:PITTSBURGH State:PA ZIP:15230-0250 Country:US Phone:412-433-7654/412-433-5811 CAGE:94977

Ingred Name:UNSATURATED POLYESTER BASE RESIN Fraction by Wt: 38-80%

Ingred Name:STYRENE, MONOMER (SARA III) CAS:100-42-5 RTECS #:WL3675000 Fraction by Wt: 20-62% OSHA PEL:100 P PM ACGIH TLV:S,50PPM/100STEL;9293 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:INHALATION-IRRITATION TO THE MUCOUS MEMBRANES OF THE UPPER RESPIRATORY TRACT MAY OCCUR. SKIN-IRRITATION MAY OCCUR, WITH PROLONGED OR REPEATED EXPOSURE POSSIBLY DEVELOPING TO DERMATITIS. ECZEMA M
AY DEV ELOP. INGESTION-ASPIRATION OF STYRENE
INTO THE LUNGS MAY CAUSE CHEMICAL PNEUMONIA WHICH MAY BE LIFE THREATENING.
Explanation of Carcinogenicity:STYRENE IS POSSIBLY CARCINOGENIC.
Effects of Overexposure:INHALATION-MAY CAUSE DROWSINESS, NAUSEA, HEADACHE, FATIGUE, NARCOSIS, DIZZINESS & INCOORDINATION. SEVERE EXPOUSRE MAY CAUSE A CONFUSED STATE. EYE-IRRITATION OF THE MUCOUS MEMBRANES, PAIN & REDNESS MAY OCCUR. INGESTION-SORE THROAT,

ABDOMINAL PAIN AND VOMITING MAY OCC

UR.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH CHRONIC RESPIRATORY CONDITIONS (IE: ASTHMA, CHRONIC BRONCHITIS, EMPHYSEMA, ETC) MAY BE ADVERSELY AFFECTED BY ANY FUME OR AIRBORNE PARTICULATE MATTER EXPOSURE.

First Aid:INHALATION: REMOVE FROM EXPOSURE. IF BREATHING IS STOPPED OR IS DIFFICULT, ADMINISTER ARTIFICIAL RESPIRATION OR OXYGEN AS INDICATED. SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN THOR OUGHLY

WITH SOAP AND WATER. EYE: FLUSH WITH LARGE AMOUNTS OF LUKEWARM WATER, LIFT UPPER AND LOWER EYELIDS OCCASIONALLY. INGEST: DO NOT INDUCE VOMITING. CALL A PHYSICIAN.

Flash Point Method:PMCC Flash Point:90.0F,32.2C Lower Limits:1.1 Upper Limits:6.1 Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL (SMALL FIRES); ALCOHOL FOAM AND WATER FOG (LARGE FIRES). WATER MAY BE INEFFECTIVE. Fire Fighting Procedures:COO

- L TANKS AND DRUMS WITH WATER. FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING EQUIPMENT AND PROTECTIVE CLOTHING. Unusual Fire/Explosion Hazard: HIGH TEMPERATURE EXPOSURE FOR EXTENDED PERIODS OF TIME WILL RESULT IN SPONTANEOUS UNCONTROLLED EXOTHERMIC POLYMERIZATION. Spill Release Procedures: REMOVE ALL IGNITION SOURCES & OPEN FLAMES. INCREASE VENTILATION TO MAXIMIZE VAPOR DISPERSAL. DIKE LARGE SPILLS TO PREVENT RUNOFF INTO SEWERS OR WATERWAYS. COVER SPILL WITH INORGANIC ABSORBENT. SWEEP U P AND PLACE IN LABELED DRUM. REPORT STYRENE SPILL. Handling and Storage Precautions: STORE IN COOL DRY AREA AWAY FROM OXIDIZERS. DO NOT STORE IN DIRECT SUNLIGHT. WORK W/ADEQUATE GENERAL & LOCAL EXHAUST VENTILATION TO MINIMIZE EXPOSURE. Other Precautions: BOND & GROUND CONTAINERS FOR TRANSFER OF THIS PRODUCT TO PREVENT STATI C SPARKS. STYRENE VAPORS ARE UNHIBITED & MAY CAUSE BLOCKAGE OF VENTILATION VENTS DUE TO POLYMERIZATION. PERIODIC INSPECTION MAY BE NECESSARY TO PREVENT BLOCKAGE. Respiratory Protection: RESPIRATORY PROTECTION APPROVED BY NIOSH/MSHA FOR PROTECTION AGAINST ORGANIC VAPORS SHOULD BE USED TO AVOID INHALATION OF EXCESSIVE AIR CONTAMINANTS. APPROPRIATE RESPIRATOR SELECTION DEPENDS ON THE TY PE AND MAGNITUDE OF EXP OSURE. Ventilation: LOCAL EXHST VENTILATION TO CONTROL EMISSION OF AIR CONTAMINANTS. GENERAL DILUTION VENTILATION TO REDUCE CONCENTRATIONS. Protective Gloves: POLYVINYL ALCOHOL, POLYETHYLENE TYPE. Eye Protection: CHEMICAL SAFETY GLASSES OR FACE SHIELD. Other Protective Equipment: POLYVINYL ALCOHOL OR POLYETHYLENE TYPE CLOTHES. EYEWASH STATION AND DELUGE SAFETY SHOWERS BE AVAILABLE IN WORK AREA.
- Work Hygienic Practices: AVOID PROLONGED OR REPEATED CONTACT WITH THE SKIN. AVOID EYE C

ONTACT. Supplemental Safety and Health WARNING! FLAMMABLE. MAY BE IRRITATING TO EYES, SKIN AND RESPIRATORY TRACT.

HCC:F4 Boiling Pt:B.P. Text:293F,145C Vapor Pres:4.5 Vapor Density:3.6 Spec Gravity:1.1 Solubility in Water:NEGLIGIBLE Appearance and Odor:CLEAR VISCOUS LIQUID; SHARP STYRENATED ODOR. Percent Volatiles by Volume:20-76

Stability Indicator/Mat erials to Avoid:NO
STRONG ACIDS, PEROXIDES AND OTHER OXIDIZING AGENTS.
Stability Condition to Avoid:EXPOSURE TO EXCESSIVE HEAT OR OPEN FLAME; STORAGE IN OPEN CONTAINERS; PROLONGED STORAGE (6 MONTHS).
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, LOW MOLECULAR WEIGHT HYDROCARBONS, ORGANIC ACIDS.
Conditions to Avoid Polymerization:EXPOSURE TO HEAT, OPEN FLAME OR CONTAMINATION WITH OXIDIZING AGENTS, AVOID STORAGE ABOVE 38C (100F).

====== Disposal

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS. HAZARDOUS WASTE REGULATIONS: 800-424-9346, THE RCRA HOTLINE.

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