

ARISTECH CHEMICAL CORP. -- UNSATURATED POLYESTER RESIN -- 8040-00-291-0164

===== Product Identification =====

Product ID:UNSATURATED POLYESTER RESIN

MSDS Date:03/01/1989

FSC:8040

NIIN:00-291-0164

MSDS Number: BLJTQ

=== Responsible Party ===

Company Name:ARISTECH CHEMICAL CORP.

Address:600 GRANT ST.

City:PITTSBURGH

State:PA

ZIP:15230-0250

Country:US

Info Phone Num:412-433-7654 OR 412-433-5811

Emergency Phone Num:412-433-7654 OR 412-433-5811

CAGE:ARIST

=== Contr

actor Identification ===

Company Name:ARISTECH CHEMICAL CORP.

Address:600 GRANT ST.

City:PITTSBURGH

State:PA

ZIP:15219-2704

Country:US

Phone:412-354-9859

CAGE:ARIST

===== Composition/Information on Ingredients =====

Ingred Name:UNSATURATED POLYESTER BASE RESIN

Fraction by Wt: 38-80%

Other REC Limits:NONE SPECIFIED

Ingred Name:STYRENE, MONOMER (SARA III)

CAS:100-42-5

RTECS #:WL3675000

Fraction by Wt: 20-62%

Other REC Limits:NONE SPECIFIED

OSHA PEL:100 PPM

ACGIH TLV:S,50PPM/1

00STEL;9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Health Hazards Acute and Chronic:INHALATION: MAY CAUSE DROWSINESS,
NAUSEA, HEADACHE, FATIGUE, NARCOSIS & DIZZINESS. SEVERE EXPOSURE
MAY CAUSE A CONFUSED STATE. IRRITATION OF THE MUCOUS MEMBRANES OF
THE UPPER RESPIRATORY TRACT MAY OCC UR. SKIN: IRRITATION MAY OCCUR
WITH PROLONGED EXPOSURE, POSSIBLY DEVE
LOPING TO DERMATITS. IF
ECZEMATOUS DEVELOPS, THIS
Effects of Overexposure:MOST OFTEN OCCURS ON THE BACKS OF THE HANDS,
WRISTS AND FOREARMS. MAY BE ABSORBED THROUGH THE SKIN. EYE:
IRRITATION OF THE MUCOUS MEMBRANES, PAIN AND REDNESS MAY OCCUR.
INGESTION: SORE THROAT, ABDOMIN AL PAIN AND VOMITING MAY OCCUR.
Medical Cond Aggravated by Exposure:INDIVIDUALS WITH CHRONIC
RESPIRATORY CONDITIONS (I.E., ASTHMA, CHRONIC BRONCHITIS,
EMPHYSEMA, ETC.) MAY BE ADVERSELY AFFECTED BY ANY
LUME OR AIRBORNE
PARTICULATE MATTER EXPOSURE.

===== First Aid Measures =====

First Aid:INHALATION: REMOVE FROM EXPOSURE. IF BREATHING IS STOPPED OR
DIFFICULT, GIVE ARTIFICIAL RESPIRATION OR OXYGEN AS INDICATED. SEEK
MEDICAL AID. SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN
THOROUGHLY W /SOAP & WATER. IF IRRITATION OCCURS, SEEK MEDICAL AID.
EYE: FLUSH W/LARGE AMOUNTS WATER, LIFT UPPER & LOWER EYELIDS
OCCASIONALLY. SEEK MEDICAL AID.
INGESTION: DO NOT INDUCE VOMITING.
SEEK MEDICAL AID.

===== Fire Fighting Measures =====

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), FOAM
AND WATER FOG (LARGE FIRES).
Fire Fighting Procedures:COOL TANKS AND DRUMS WITH WATER. FIREFIGHTERS
SHOULD WEAR SELF-CONTAINED BREATHING EQUIPMENT.
Unusual Fire/Explosion Hazard:HIGH TEMPERATURE EXPOSURE FOR EXTEN

DED

PERIODS OF TIME WILL RESULT IN SPONTANEOUS UNCONTROLLED EXOTHERMIC POLYMERIZATION.

===== Accidental Release Measures =====

Spill Release Procedures: REMOVE ALL IGNITION SOURCES AND OPEN FLAMES. INCREASE VENT TO MAXIMIZE VAPOR DISPERSAL. DIKE LARGE SPILLS TO PREVENT RUNOFF INTO SEWERS OR WATERWAYS. COVER SPILL W/INORGANIC ABSORBENT MATERIAL (VERMIC ULITE). SWEEP UP AND PLACE IN LABELLED DRUM.

===== Handling and Storage ==
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Handling and Storage Precautions: AVOID CONTACT W/SKIN & EYES. STORE IN A COOL, DRY AREA. DO NOT STORE IN DIRECT SUNLIGHT. WORK W/ADEQUATE VENT TO MINIMIZE VAPOR EXPOSURE.

Other Precautions: BOND & GROUND CONTAINERS FOR TRANSFER OF THIS PRODUCT TO PREVENT STATIC SPARKS. STYRENE VAPORS ARE UNINHIBITED & MAY CAUSE BLOCKAGE OF VENTILATION VENTS DUE TO POLYMERIZATION. PERIODIC INSPECTION MAY BE NECESSARY TO PREVENT BLOCKAGE.

===== Exposure Controls/
Personal Protection =====

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 TYPE AND MAGNITUDE OF EXPOSURE.

Ventilation: USE LOCAL EXHST VENT TO CONTROL EMISSION OF AIR CONTAM. GENERAL DILUTION VENT MAY ASSIST W/REDUCTION OF AIR CONTAM CONC.

Protective Gloves: CHEMICAL RESISTANT.

Eye Protection: CHEMICAL SAFETY GLASSES & FACE SHIELD.

Other Protective Equipment: EMERGENCY EYE WASH STATION AND DELUGE SAFETY SHOWERS SHOULD BE AVAILABLE IN WORK AREA.

Supplemental Safety and Health

STYRENE IS ON THE CERCLA HAZARDOUS SUBSTANCE LIST OF 1980 AS AMENDED AND REPORTABLE SPILLS MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800-424-8802. POLYVINYL ALCOHOL AND POLYETHYLENE PROTECTIVE GARMENTS HAVE BEEN RECOMMENDED FOR PROTECTION AGAINST MATERIALS OF THIS CHEMICAL CLASS.

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==== Physical/Chemical Properties =====

HCC:F4

Boiling Pt:B.P. Text:293F,145C

Vapor Pres:5.2 MM HG

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:20-62

===== Stability and Reactivity Data =====

Stability Indicator/Materials 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 38 C (100
F).

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND
FEDERAL REGU

LATIONS. FOR HAZARDOUS WASTE REGULATIONS-D001, CALL
800-424- 9346, THE RCRA HOTLINE.

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