

VAN WATERS AND ROGERS INC DIV OF UNIVAR CORP -- STYRENE -- 6810-00-987-4126

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Product Identification  
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Product ID:STYRENE

MSDS Date:01/01/1992

FSC:6810

NIIN:00-987-4126

MSDS Number: BHZGR

=== Responsible Party ===

Company Name:VAN WATERS AND ROGERS INC DIV OF UNIVAR CORP

Address:2256 JUNCTION AVENUE

Box:5932

City:SAN JOSE

State:CA

ZIP:95131

Country:US

Info Phone Num:408-435-8700 OR 801-42

4-9300

Emergency Phone Num:800-424-9300(CHEMTREC)

Preparer's Name:C. A. EISENHARD

CAGE:0AN91

=== Contractor Identification ===

Company Name:CHEMICAL COMMODITIES AGENCY, INC.

Address:27447 PACIFIC STREET

Box:City:HIGHLAND

State:CA

ZIP:92346-2640

Country:US

Phone:909-864-2310

CAGE:60777

Company Name:VAN WATERS AND ROGERS

Address:2256 JUNCTION AVE

City:SAN JOSE

State:CA

ZIP:95131

Country:US

Phone:408-435-8700/800-424-9300(CHEMTREC)

CAGE:0AN91

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Composition/Information on Ingredients

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Ingred Name:STYRENE, MONOMER (SARA III)  
CAS:100-42-5  
RTECS #:WL3675000  
Fraction by Wt: 99% %  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:100 PPM  
ACGIH TLV:S,50PPM/100STEL;9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 316 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:VAPORS AN  
D MIST MAY IRRITATE THE NOSE  
& THROAT. INHALATION OF VERY HIGH CONCENTRATIONS OR PROLONGED  
EXPOSURE MAY CAUSE UNCONSCIOUSNESS. EYE-IRRITATION. LIQUID & MIST  
MAY DAMAGE THE EYES.  
Explanation of Carcinogenicity:NOT LISTED BY THESE ORGANIZATIONS AS A  
CARCINOGEN. IARC HAS PROPOSED TO RECLASSIFY STYRENE AS "POSSIBLY"  
CARCINOGENIC.  
Effects of Overexposure:INHALATION OF HIGHER CONCENTRATIONS MAY CAUSE  
MAY CAUSE DRUNKENESS, ANESTHETIC OR NARCOTIC EFFECTS WITH NAUSEA,  
HEADACHE  
, VOMITING AND COMA. SKIN: MAY DRY THE SKIN, DERMATITIS,  
CRACKING, BLISTERING, BURN.  
Medical Cond Aggravated by Exposure:NONE REPORTED.

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

First Aid:INHALED: REMOVE TO FRESH AIR. GIVE CPR IF NOT BREATHING. GET  
IMMEDIATE MEDICAL ATTENTION. EYE: IMMEDIATELY FLUSH EYES WITH LOTS  
OF WATER FOR 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. SKIN:  
FLUSH SKIN WITH LOTS OF WATER FOR 15 MINUTES. REMOVE CONTAMINATED  
CLOTHING & SHOES. GET IMMEDIATE MEDICAL ATTENTION. INGESTION: DO  
NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

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

Flash Point Method:TCC  
Flash Point:88.0F,31.1C  
Lower Limits:1.1  
Upper Limits:6.1  
Extinguishing Media:USE WATER SPRAY, DRY CHEMICAL OR CARBON DIOXIDE. DO  
NOT USE A DIRECT WATER STREAM.  
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &  
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICALS

CAL FIRE. USE WATER

SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:STYRENE VAPORS ARE UNINHIBITED AND MAY FORM POLYMERS IN VENTS OR FLAME ARRESTERS OR STORAGE TANKS RESULTING IN STOPPAGE OF VENTS.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT (RUBBER BOOTS, GLOVES & APRON) & SELF-CONTAINED BREATHING APPARATUS IN THE PRESSURE DEMAND MODE OR A SUPPLIED AIR RESPIRATOR. EXTINGUISH ALL

IGNITION SOURCES. MOP OR WIPE UP & DISPOSE OF IN D.O.T CONTAINER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:KEEP AWAY FROM HEAT, SPARKS, AND FLAMES. STORE IN WELL VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS.

Other Precautions:VENT CONTAINER MORE OFTEN IN WARM WEATHER TO RELIEVE PRESSURE. ELECTRICALLY GROUND ALL EQUIPMENT WHEN HANDLING PRODUCT AND USE

ONLY NON-SPARKING TOOLS. DO NOT USE PRESSURE TO EMPTY CONTAINER. DO NOT CUT, GRIND, OR WELD IN AREA.

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

Respiratory Protection:WEAR A NIOSH-APPROVED RESPIRATOR APPROPRIATE FOR THE VAPOR OR MIST CONCENTRATION AT THE POINT OF USE. FOR EXAMPLE A SUPPLIED AIR RESPIRATOR.

Ventilation:LOCAL MECHANICAL EXHAUST VENTILATION.

Protective Gloves:RUBBER GLOVES

Eye Protection:CHEMICAL GOGGLES

Other Protective Equipment:RUBBER APRON. EYE WASH STATION & SAFETY SHOWER.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

"EMPTY" CONTAINERS WILL RETAIN PRODUCT RESIDUE AND VAPORS. ALWAYS OBEY HAZARD WARNINGS AND HANDLE EMPTY CONTAINERS AS IF THEY WERE FULL.

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

HCC:F3

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

Vapor Pres:4.5

Vapor De

nsity:3.6

Spec Gravity:0.90

Solubility in Water:NIL

Appearance and Odor:CLEAR, COLORLESS LIQUID, SWEET ODOR

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

Stability Indicator/Materials to Avoid:YES

ACIDS, OXIDIZING MATERIALS, ALKALIS, METALLIC HALIDES AND PEROXIDES.

Stability Condition to Avoid:MAINTAIN INHIBITOR LEVEL AND KEEP BELOW 90  
F/32 C HEAT.

Hazardous Decomposition Products:MAY LIBERATE CARBON MONOXIDE OR CARBON  
DIOXIDE.

Conditions to Avoid Polymerization:H

EAT, CONTACT WITH METAL HALIDES OR

PEROXIDES OR OXYGEN ALSO CONTRIBUTE TO POLYMERIZATION.

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

Waste Disposal Methods:CONSULT APPROPRIATE FEDERAL, STATE, AND LOCAL  
REGULATORY AGENCIES FOR PROPER DISPOSAL INFORMATION. KEEP OUT OF  
SEWERS, STORM DRAINS, SURFACE WATERS AND SOIL.

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