

VAN WATERS AND ROGERS INC DIV OF UNIVAR CORP -- STYRENE MONOMER 50T --
6810-00-987-4126

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

Product ID:STYRENE MONOMER 50T

MSDS Date:03/01/1993

FSC:6810

NIIN:00-987-4126

MSDS Number: BSHVK

=== Responsible Party ===

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

Address:6100 CARILLON PT

City:KIRKLAND

State:WA

ZIP:98033

Country:US

Info Phone Num:909-683-516

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

Preparer's Name:C. A. EISENHARD

CAGE:0STM5

=== 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:VOPAK USA INC

Address:6100 CARILLON POINT

Box:City:KIRKLAND

State:WA

ZIP:98033-7357

Country:US

Phone:425-889-3400/425-889-3617

CAGE:0STM5

===== 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:50 PPM/100 STEL

ACGIH TLV:S,50PPM/100STEL;9192

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:P-T-BUTYLCATECHOL (4-TERT-BUTYLCATECHOL)

CAS:98-29-3

RTECS #:UX1400000

Other REC Limits:600 PPM 5 MIN/3 HR

OSHA PEL:200 PPM (CEILING)

ACGIH TLV:100 PPM STEL

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===== 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 AND 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.

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

First Aid:INHALED: REMOVE TO FRESH AIR. GIVE CPR IF NOT BREATHING. GET IMMEDIATE MEDICAL ATTENTION. EYE: IMMEDIATELY F

LUSH EYES WITH LOTS

OF WATER FOR 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. SKIN:
FLUSH SK IN WITH LOTS OF WATER FOR 15 MINUTES. REMOVE CONTAMINATED
CLOTHING & SHOES. GET IMMEDIATE MEDICAL ATTENTION. INGESTION: DO
NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

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

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 CHEMICAL 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.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIP
MENT (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.

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

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

Other P

recautions: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.

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===== 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.

Ventil

ation: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. LAUNDRER 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 MM HG

Vapor Density:3.6(AIR=1)

Spec Gravity:0.90 (WATER=1)

Evaporation Rate & Reference:N/K (N-BUTYL ACETATE=1)

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:HEAT, 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 I

INFORMATION. KEEP OUT OF
SEWERS, STORM DRAINS, SURFACE WATERS AND SOIL.

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