

VAN WATERS AND ROGERS INC DIV OF UNIVAR CORP -- SULFURIC ACID -- 6810-00-975-0707

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

Product ID:SULFURIC ACID

MSDS Date:03/22/1994

FSC:6810

NIIN:00-975-0707

MSDS Number: BVHFV

=== 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:206-889-3400

Emergency P

hone Num:800-424-9300(CHEMTREC)

Preparer's Name:MSDS COORDINATOR

CAGE:0STM5

=== Contractor Identification ===

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

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 =====

Ingred Nam

e:SULFURIC ACID (SARA III)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: >93%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9394  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 2140 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:CAUSES SEVERE BURNS TO EYES, SKIN, AND

ALL BODY TISSUE. EYE DAMAGE MAY BE PERMANENT. DESTRUCTION OF TISSUE  
MAY RESULT FROM DIRECT CHEMICAL REACTION WITH TISSUE, FROM THERMAL  
BURNS AND FROM DEHYDRATION (REMOVAL OF WATER) OF THE TISSUE.  
Explanation of Carcinogenicity:THIS CHEMICAL IS NOT LISTED BY IARC,  
NTP, OR OSHA AS A CARCINOGEN.  
Effects of Overexposure:INHALED-COUGHING, WHEEZING, SHORTNESS OF  
BREATH, TIGHTNESS IN CHEST, CHEST PAIN. EYES-PAIN, BLURRED VISION,  
REDNESS, TEARING. SKIN-REDNESS, PAIN, BURNS, SWELLI  
NG. INGESTED:  
NAUSEA, VOMITING, STOMACH P AIN, BURNS TO MOUTH/THROAT/ESOPHAGUS.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:IN ALL CASES GET IMMEDIATE MEDICAL ATTENTION.  
INHALATION:REMOVE TO FRESH AIR.RESUSCITATE IF NOT BREATHING.  
EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES,HOLD  
LIDS OPEN. SKIN:REMOVE CONTAM INATED CLOTHING.WASH WITH PLENTY OF  
WATER FOR 15 M  
INUTES. INGESTION:DO NOT INDUCE VOMITING.IF  
CONSCIOUS,GIVE SEVERAL GLASSES OF MILK OR WATER.

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

Flash Point:NOT FLAMMABLE  
Lower Limits:NOT GIVEN  
Upper Limits:NOT GIVEN  
Extinguishing Media:USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING  
FIRE. USE WATER SPRAY TO COOL CONTAINERS. DO NOT GET WATER IN  
CONTAINER  
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A  
FULL FACED SELF CONTAINED BREATHING

APPARATUS. GENERATES HEAT UPON

ADDITION OF WATER WITH POSSIBLE SPLATTERING.

Unusual Fire/Explosion Hazard:NEUTRALIZE RUNOFF WITH LIME, SODA ASH,  
ETC, TO PREVENT CORROSION OF METALS OF FORMATION OF HYDROGEN GAS.  
EVACUATE PERSONNEL TO SAFE AREA. STAY UPWIND.

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

Spill Release Procedures:ELIMINATE ALL SOURCES OF IGNITION. WEAR FULL  
PROTECTIVE EQUIPMENT. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. DIKE  
TO RETAIN RUNOF

F. PUMP LIQUID TO SALVAGE TANK. NEUTRALIZE SMALL  
AMOUNTS WITH SODA ASH O R LIME. MAKE SLURRY AND SHOVEL INTO  
DISPOSAL DRUM.

Neutralizing Agent:SODIUM BICARBONATE OR A SODA ASH/SLAKED LIME MIXTURE  
(50-50)

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

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. KEEP  
CONTAINERS AWAY FROM HEAT. ISOLATE FROM INCOMPATIBLE MATERIALS. ADD  
ACID TO WATER SLOWLY TO PREVENT SPLATTERING.

Other Precautions:ADDITI

ON TO WATER RELEASES HEAT WHICH CAN RESULT IN  
VIOLENT BOILING AND SPATTERING. ALWAYS ANDD SLOWLY AND IN SMALL  
AMOUNTS. NEVER USE HOT WATER. NEVER ADD WATER TO ACIDS. ALWAYS ADD  
ACIDS TO WATER. E MPTY CONTAINERS MAY BE HAZARDOUS.

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

Respiratory Protection:NONE NORMALLY REQUIRED. IF ENGINEERING CONTROLS  
FAIL OR NON-ROUTINE USE OR EMERGENCY OCCURS; USE NIOSH/MSHA  
APPROVED RESPIRATOR OR SUPPLIED AIR RESPIRATOR OR

SCBA, AS

REQUIRED. USE IAW 29 CFR 1910.134 AND MANUFACTURER'S  
RECOMMENDATIONS.

Ventilation:USE SUFFICIENT MECHANICAL (GENERAL) VENTILATION TO MAINTAIN  
EXPOSURE BELOW TLV REQUIREMENTS.

Protective Gloves:POLYVINYL CHLORIDE GLOVES

Eye Protection:CHEMICAL SPLASH GOGGLES AND FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE IMPERVIOUS WORK CLOTHING, BOOTS AND APRON AS  
REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICE

S AND  
RECOMMENDED PROCEDURES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.  
Supplemental Safety and Health  
AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO  
NOT BREATHE VAPORS OR MISTS. ENVIRONMENTAL NOTE: CLEAN WATER ACT  
SEC. 311-YES, RQ=1000 LBS.

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

HCC:C1  
Boiling Pt:B.P. Text:534F,279C  
Melt/Freeze Pt:M.P/F.P Text:-31F,-35C  
Decomp Temp:Decomp Text:NOT GIVEN  
Vapor Pres: