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VAN WATERS AND ROGERS INC -- SULFURIC ACID ELECTROLYTE -- 6810-00-236-0702

Product ID:SULFURIC ACID ELECTROLYTE

MSDS Date:11/01/1993

FSC:6810

NIIN:00-236-0702

MSDS Number: BSKTK === Responsible Party ===

Company Name: VAN WATERS AND ROGERS INC

Address:6100 CARILLON PT

City:KIRKLAND

State:WA ZIP:98033 Country:US

Info Phone Num:206-889-3712 Emergency Phone Num:206-

889-3712/800-424-9300(CHEMTREC)

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 ========

Ingred Name: SULFURIC ACID (SARA III)

CAS:7

664-93-9 RTECS #:WS5600000 Fraction by Wt: 29% 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:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO Health Hazards Acute and Chronic: ACUTE: SEVERE BURNS AND ULCERATION OF SKIN, EYES, MOUTH, THROAT, ESOPHA GUS AND STOMACH. INFLAMMATION OF BRONCHIAL MEMBRANES. CHRONIC: EROSION OF TEETH, INFLAMMATION OF NOSE, THROAT AND BRONCHIAL TUBES. Explanation of Carcinogenicity: SULFURIC ACID MISTS ARE CLASSIFIED IARC-2B. Effects of Overexposure:IF CONTACTED, SEVERE BURNS AND ULCERATION OF SKIN AND EYES. IF INHALED, SEVERE RESPIRATORY IRRITATION. IF INGESTED, SEVERE BURNS AND ULCERATION. Medical Cond Aggravated by Exposure: SULFURIC ACID MAY AGGRAVATE SKIN DISEASES SUCH AS ECZEMA AND DER MATITIS. First Aid:EYES/SKIN: FLUSH WITH PLENTY OF WATER. SEE DOCTOR

First Aid:EYES/SKIN: FLUSH WITH PLENTY OF WATER. SEE DOCTOR IMMEDIATELY. REMOVE CONTAMINATED CLOTHING AND SHOES. INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. SEE DOCTOR. INGESTION: DO NOT INDUCE VOMITING. GIVE MILK OR WATER, FOLLOWED BY 2 OUNCES OF MILK OF MAGNESIA (NO CARBONATES). SEE DOCTOR IMMEDIATELY.

Flash

Point:NONE Autoignition Temp:Autoignition Temp Text:NONE Lower Limits:NONE Upper Limits:NONE Extinguishing Media:USE WATER SPRAY. IF ONLY A SMALL AMOUNT OF COMBUSTIBLES IS PRESENT SMOTHER FIRE WITH DRY CHEMICAL. Fire Fighting Procedures:WEAR SULFURIC ACID RESISTANT CLOTHING AND A FULL FACED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. Unusual Fire/Explosion Hazard:DO NOT USE SOLID WATER STREAM ON RUPTURED CONTAINERS. ACID REACTS VIOLENTLY WIT H WATER AND CAN SPATTER. CONTACT WITH METALS CAN GENERATE FLAMMABLE HYDROGEN GAS.
========= Accidental Release Measures ==========
Spill Release Procedures:WEAR APPROPIATE PROTECTIVE EQUIPMENT. DILUTE CAUTIOUSLY WITH WATER. COVER WITH SODA ASH OR QUICKLIME. SCOOP UP AND PLACE IN APPROPIATE DISPOSAL CONTAINER. FLUSH AREA WITH LARGE AMOUNTS OF WATER. Neutralizing Agent:SODA ASH (SODIUM CARBONATE), BAKING SODA OR QUICKLIME (CALCIUM OXIDE).
====== Handling and Storage ================
Handling and Storage Precautions:PROTECT FROM PHYSICAL DAMAGE. KEEP AWAY FROM COMBUSTIBLES. KEEP CONTAINERS UPRIGHT. NO SMOKING IN STORAGE AREA. Other Precautions:LOOSEN CLOSURES CAREFULLY. FOR CARRYING GLASS BOTTLES, USE RUBBER AND PROTECTIVE ENCLOSURES.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:NIOSH/MSHA-APPROVED CARTRIDGE RESPIRATOR FOR ACIDS OR E.G. GAS MASK WITH ACID CANIS TER WITH HIGH EFFICIENCY PARTICULATE FILTER. Ventilation:GENERAL (MECHANICAL) VENTILATION. LOCAL EXHAUST IN CONFINED AREAS. USE CORROSION PROOF EQUIPMENT. Protective Gloves:RUBBER GLOVES. Eye Protection:GOGGLES AND FULL FACE PLASTIC SHIELD Other Protective Equipment:RUBBER APRON AND BOOTS, ACID RESISTANT TROUSERS AND JACKET. EYE WASH STATION AND SAFETY SHOWER. Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. Supplemental Safety and Health NONE.

======== Physical/Ch

emical Properties =========
HCC:C1 Boiling Pt:B.P. Text:590F (94%) Melt/Freeze Pt:M.P/F.P Text:-17F (94%)
Vapor Pres:0.001(94%) Vapor Density:3.38
Spec Gravity:1.21 (FROM TIR) pH:ACIDIC Solubility in Water:COMPLETE
Appearance and Odor:OILY, COLORLESS TO SLIGHTLY YELLOW, CLEAR TO TURBID LIQUID. ODORLESS.
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES ORGANIC MATERIALS, NITRO-COMPOUNDS, CARBIDES, DIENES, ALCOHOLS, WAT
ER, POWDERED METALS, SOME NON-ACID-RESISTANT PLASTICS Stability Condition to Avoid:TEMPERATURES ABOVE 572F OR HIGHER YIELD
SULFUR TRIOXIDE GAS, WHICH IS TOXIC, CORROSIVE AND AN OXIDIZER. Hazardous Decomposition Products:SULFURIC ACID FUMES, SULFUR DIOXIDE, SULFUR TRIOXIDE.
Dianagal Considerations

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

Waste Disposal Methods:CONSULT YOUR LOCAL ENVIRONMENTAL OFFICER. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL RE

GULATIONS. EPA HAZARDOUS WASTE NUMBER D002 CORROSIVE.

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