

HARCROSS CHEMICALS INC -- 26-00701-06 SULFURIC ACID ELECT. 1.835BDY -- 6810-00-551-5231
===== Product Identification =====

Product ID:26-00701-06 SULFURIC ACID ELECT. 1.835BDY

MSDS Date:02/11/1989

FSC:6810

NIIN:00-551-5231

MSDS Number: BJQCZ

=== Responsible Party ===

Company Name:HARCROSS CHEMICALS INC

Address:5200-SPEAKER ROAD

Box:2383

City:KANSAS CITY

State:KS

ZIP:66106-1095

Country:US

Info P

hone Num:913-321-3131

Emergency Phone Num:913-321-3131

Preparer's Name:GENE TURNER

CAGE:LO577

=== Contractor Identification ===

Company Name:HARCROS CHEMICALS INC.

Address:5200-SPEAKER ROAD

Box:2383

City:KANSAS CITY

State:KS

ZIP:66106-1095

Country:US

Phone:913-321-3131

CAGE:6Z690

Company Name:HARCROSS CHEMICALS INC

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Phone:913-321-3131

CAGE:LO577

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

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Ingred Name:SULFURIC ACID (SARA III)
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 93.2%
Other REC Limits:NONE SPECIFIED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:ORAL RAT LD50 IS 2140 MG/KG
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYE: IRRITATION, CORNEAL BURNS

CONJUNCTIVITIS. SKIN SEVERE BURNS, NECROSIS, ULCERATION.
INHALATION: IRRITATION, BURNS TO RESPIRATORY TRACT, PULMONARY
EDEMA. LC50 = 20-60 MG/M3. INGESTED: IRRITATION, BURNS TO
GASTROINTESTINAL TRACT. HARMFUL IF SWALLOWED. CHRONIC: EROSION OF
TEETH, LESIONS, BRONCHITIS

Explanation of Carcinogenicity:NOT LISTED AS A CARCINOGEN BY IARC, NTP,
OSHA, ACGIH.

Effects of Overexposure:EYE: IRRITATION, BURNS, BLINDNESS. SKIN: SEVERE
BURNS, NECROSIS, ULCERS. INHALATION: IRRITATION,
BURNS TO
RESPIRATORY TRACT. COUGH, DISCOMFORT, DIFFICULTY IN BREATHING,
SHORTNESS OF BREATH. ACUTE EXPOSURE MAY CAUSE PULMONARY EDEMA.
INGESTION: GASTROINTESTINAL IRRITATION, BURNS. CAN BE FATAL IF
SWALLOWED.

Medical Cond Aggravated by Exposure:NONE GIVEN BY MANUFACTURER.

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

First Aid:EYES: FLUSH WITH WATER 15 MINUTES, HOLD LIDS OPEN. SKIN: WASH
WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUN
DER
BEFORE REUSE. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING IF
NECESSARY. INGESTION: DO NOT INDUCE VOMITING. GIVE 2 LARGE GLASSES
OF MILK OR WATER . GET IMMEDIATE MEDICAL CARE. GIVE NOTHING BY
MOUTH IF UNCONSCIOUS. IF IRRITATION PERSISTS OR IS SEVERE. SEE A
DOCTOR.

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

Flash Point:WILL NOT BURN
Extinguishing Media:USE WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE FOR
FIRES ADJACENT TO NON-LEAKING TANK

KS AND OTHER CONTAINERS.

Fire Fighting Procedures:WEAR NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE AND FULL PROTECTIVE CLOTHING. COOL NON-LEAKING FIRE-EXPOSED CONTAINERS WITH WATER SPR

Unusual Fire/Explosion Hazard:FLAMMABLE AND POTENTIALLY EXPLOSIVE HYDROGEN GAS CAN BE GENERATED INSIDE METAL DRUMS AND STORAGE TANKS. CONCENTRATED ACID CAN IGNITE COMBUSTIBLE MATERIAL.

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

Spill Release Proc

cedures:SMALL SPILL: CAUTIOUSLY DILUTE WITH PLENTY OF WATER AND NEUTRALIZE. LARGE SPILL: EVACUATE UNPROTECTED PEOPLE. CONTAIN ACID BY DIKING SPILL WITH SOIL, ETC. RECOVER ACID IF POSSIBLE. KEEP OUT OF SEWERS. ANY RELEASE TO ENVIRON. MAY BE SUBJECT TO REPORT.

Neutralizing Agent:SODA ASH OR LIME

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

Handling and Storage Precautions:'EMPTY' CONTAINERS MAY CONTAIN RESIDUE OR VAPOR. TREAT THEM WITH THE RESPECT DUE FULL ONES. KEEP CONTAINER

CLOSED. DO NOT ADD WATER TO ACID IN CONT.

Other Precautions:LOOSEN CLOSURE CAREFULLY. WHEN CARRYING GLASS BOTTLES, USE RUBBER PROTECTIVE ENCLOSURES. IF STORED IN METAL, CONTAINER MAY CONTAIN EXPLOSIVE HYDROGEN GAS.

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

Respiratory Protection:FOR EXPOSURE ABOVE PEL/TLV AND UP TO 25 MG/M3, USE ANY POWERED AIR PURIFYING RESPIRATOR WITH HIGH EFFICIENCY PARTICULATE FILTER AND ACID GAS CARTRIDGE.

FOR ALTERNATES AND FOR

HIGHER CONCENTRATIONS SEE NIOSH/OSHA POCKET GUIDE TO CHEM HAZARDS

Ventilation:SUFFICIENT TO REDUCE VAPOR AND ACID MIST TO PERMISSABLE LEVELS. MAY REQUIRE LOCAL EXHAUST FOR PACKAGING AND LOADING AREA

Protective Gloves:RUBBER, PVC

Eye Protection:SPLASH GOGGLES AND FULL FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER, HARD HAT, ACID RESISTANT APRON, BOOTS. BETTER YET, WEAR ACID SUIT. NEUTRALIZE EQUIP.

Work Hygienic Practices:AVOI

D BREATHING VAPORS OR MISTS. MINIMIZE SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, ETC.

Supplemental Safety and Health

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

HCC:C1

Boiling Pt:B.P. Text:535F,279C

Vapor Pres:< 0.3

Vapor Density:3.4

Spec Gravity:1.835

pH:< 1

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

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS TO LIGHT BROWN, CLEAR TO TURBID, OILY, ODORLESS LIQUI

D.

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

Stability Indicator/Materials to Avoid:YES

NITRO COMPOUNDS, CARBIDES, DIENES, ALCOHOLS, OXIDIZING AGENTS, ALDEHYDES, ALLYLS, METALS

Stability Condition to Avoid:HIGH HEAT, MOISTURE

Hazardous Decomposition Products:OXIDES OF SULFUR, HYDROGEN SULFIDE, HYDROGEN GAS

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

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

REGULATIONS. MANUFACTURER MAKES NO SUGGESTIONS AS TO METHOD OF DISPOSAL.

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