

## **SULFURIC ACID**

### **MSDS Number**

BSDRL

### **National Stock Number**

6810-00-893-8138

### **Product Name**

SULFURIC ACID

### **Manufacturer**

GENERAL CHEMICAL CORP

### **Product Identification**

Product ID:SULFURIC ACID

MSDS Date:05/01/1990

FSC:6810

NIIN:00-893-8138

MSDS Number: BSDRL

### **Responsible Party**

GENERAL CHEMICAL CORP

90 E HALSEY RD

PARSIPPANY , NJ 07054

US

Emergency Phone: 800-631-8050

Info Phone: 800-631-8050

Cage: 0AU44

### **Contractor**

GENERAL CHEMICAL CORPORATION

PARSIPPANY, NJ 07054

US

973-515-1840

Cage: 0AU44

### **Ingredients**

SULFURIC ACID (SARA III)

CAS: 7664-93-9

RTECS: WS5600000

Fraction By Weight: VARIES

OSHA PEL1 MG/M3

ACGIH TLV: 1 MG/M3; 9192

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

### **Hazards**

LD50 LC50 Mixture:LD50 (ORAL RAT) 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:INHALATION OF VAPORS CAUSES SEVERE IRRITATION OR BURNS OF THE RESPIRATORY SYSTEM, PULMONARY EDEMA, OR LUNG INFLAMMATION. EYE CONTACT CAUSES SEVERE DAMAGE AND POSSIBLE

BLINDNESS. SKIN CONTACT CAUSES BURNS AND POSSIBLE DEEP ULCERATION. INGESTION CAUSES SEVERE BURNS TO MOUTH, THROAT, AND STOMACH.

Explanation of Carcinogenicity: THIS CHEMICAL IS NOT LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure: SEVERE IRRITATION OR BURNS TO EYES, NOSE, AND THROAT. PULMONARY EDEMA, BRONCHIAL EMPHYSEMA, CONJUNCTIVITIS, STOMATITIS, DENTAL EROSION, NAUSEA, AND VOMITING.

Medical Condition Aggravated by Exposure: PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

## First Aid

First Aid: INHALATION: GET FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET PROMPT MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH PLENTY OF WATER FOR 15 MINUTES. GET MEDICAL ADVICE. INGESTION: DO NOT INDUCE VOMITING. GIVE SEVERAL GLASSES OF MILK OR WATER. GET IMMEDIATE MEDICAL ATTENTION.

## Fire Fighting

Flash Point: NOT FLAMMABLE

Extinguishing Media: USE WATER SPRAY. AVOID SPRAYING WATER INTO CONTAINERS. IF ONLY A SMALL AMOUNT OF A COMBUSTIBLE IS PRESENT, SMOTHER FIRE.

Fire Fighting Procedures: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

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

## Accidental Release

Spill Release Procedures: DILUTE SMALL SPILLS OR LEAKS CAUTIOUSLY WITH PLENTY OF WATER. NEUTRALIZE RESIDUE WITH ALKALI SUCH AS SODA ASH OR LIME WITH ADEQUATE VENTILATION DUE TO RELEASE OF CARBON DIOXIDE. MAJOR SPILLS MUST BE HANDLED BY A PREDETERMINED PLAN. Neutralizing Agent: SODIUM BICARBONATE OR A SODA ASH/SKAKED LIME MIXTURE (50-50)

## Handling

Handling and Storage Precautions: LOOSEN CLOSURES CAREFULLY. FOR CARRYING GLASS BOTTLES, USE RUBBER PROTECTIVE ENCLOSURES. IF STORED IN METAL CONTAINERS, VAPORS CAN CONTAIN HYDROGEN GAS

Other Precautions: ADDITION TO WATER RELEASES HEAT WHICH CAN RESULT IN VIOLENT BOILING AND SPATTERING. ALWAYS ADD SLOWLY AND IN SMALL AMOUNTS. NEVER USE HOT WATER. NEVER ADD WATER TO ACIDS. ALWAYS ADD ACIDS TO WATER. EMPTY CONTAINERS MAY BE HAZARDOUS.

## Exposure Controls

Respiratory Protection: NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION EXCEEDS TLV, A NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED. IF MISTING, WEAR GAS MASK WITH ACID GAS CANISTER AND PARTICULATE FILTER.

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

Protective Gloves: PVC

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 PRACTICES AND RECOMMENDED PROCEDURES. LAUNDRY 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.

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## Chemical Properties

HCC:C1

Boiling Pt:B.P. Text:590F,310C

Melt/Freeze Pt:M.P/F.P Text:-17F,-27C

Spec Gravity:1.842

pH:0.9

Solubility in Water:COMPLETE

Appearance and Odor:OILY, COLORLESS TO SLIGHTLY YELLOW, CLEAR TO TURBID LIQUID. ODORLESS.

## Stability

Stability Indicator/Materials to Avoid:YES

NITRO COMPOUNDS, CARBIDES, DIENES, ALCOHOLS, OXIDIZING AGENTS, CHLORATES, ALLYL COMPOUNDS

Stability Condition to Avoid:TEMPERATURES OF 300C OR HIGHER, MOISTURE

Hazardous Decomposition Products:SULFUR TRIOXIDE, SULFUR DIOXIDE, HYDROGEN SULFIDE, HYDROGEN GAS

## Disposal

Waste Disposal Methods:CONSULT YOUR LOCAL ENVIRONMENTAL OFFICER. USERS ARE ADVISED TO CONSULT WITH APPROPRIATE REGULATORY AGENCIES BEFORE DISCHARGE. RCRA STATUS OF UNUSED MATERIAL, IF DISCARDED IS EPA HAZARDOUS WASTE, NUMBER D0002 (CORROSIVE).

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