

AQUA TREAT CHEMICALS INC -- SULFURIC ACID, TRADE NAME: C-591 -- 6810-00-146-7520

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

Product ID:SULFURIC ACID, TRADE NAME: C-591

MSDS Date:11/01/1993

FSC:6810

NIIN:00-146-7520

MSDS Number: BWPDL

=== Responsible Party ===

Company Name:AQUA TREAT CHEMICALS INC

Address:1601 INDUSTRIAL WAY SUITE 120

City:BELMONT

State:CA

ZIP:94002

Country:US

Info Phone Num:415-493-2100

Emergency Phone Num:800-424-9300; CHEMTREC

CAGE:0ZUJ2

=== Contractor Identification ===

Company Name:AQUA TREAT CHEMICALS INC

Address:1601 INDUSTRIAL WAY SUITE 120

Box:City:BELMONT

State:CA

ZIP:94002

Country:US

Phone:415-493-2100

CAGE:0ZUJ2

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

Ingred Name:SULFURIC ACID (SARA III)

CAS:7664-93-9

RTECS #:WS5600000

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

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Hazards Identification  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
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 Cond 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.

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First Aid Measures  
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First Aid:INHALATION:REMOVE TO 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 NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

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Fire Fighting Measures  
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Flash Point:NONE  
Lower Limits:NONE  
Upper Limits:NONE  
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.  
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:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. REACTS

WITH ACTIVE  
METALS TO PRODUCE FLAMMABLE HYDROGEN.

===== 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 RUNOFF. 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:ADDITION 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 CO NTAINERS MAY BE HAZARDOUS.

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

Respiratory Protection:NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION EXCEEDS TLV, A NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

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

Protective Gloves:POLYVINYL CHLORIDE GLOVES

Eye Protection:CHEMICAL SPLASH GOGGLES AND FACE SHIEL D

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. 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.

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

HCC:C1  
Bo

Boiling Pt: B.P. Text: 529F, 276C

Vapor Pres: NIL

Spec Gravity: 1.83

pH: