

Material Safety Data Sheet

Provided by:
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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name SULFURIC ACID
Synonyms BATTERY ACID, HYDROGEN SULFATE, SULPHURIC ACID
Chemical Name SULFURIC ACID **Date of Issue:** 10/01/00
Emergency phone: 281-457-4888 **Reviewed / Revision Date:** 08/31/07
Chemtrec: 800-424-9300

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	PERCENT	CAS NO.
WATER		7732-18-5
SULFUR DIOXIDE	N/K	7446-09-5
SULFURIC ACID	77% - 100%	7664-93-9

SECTION 3 - HAZARDS IDENTIFICATION

Potential Health Effects

ACGIH - TLV: 1 mg/cu m (TWA)
Eye Contact CONTACT MAY CAUSE SEVERE EYE IRRITATION AND BURNS WITH PERMANENT DAMAGE POSSIBLE.
Skin Contact CONTACT MAY CAUSE SEVERE EYE IRRITATION AND BURNS WITH ULCERS POSSIBLE.
Ingestion CORROSIVE AND MAY CAUSE SEVERE AND PERMANENT DAMAGE TO MOUTH, THROAT AND STOMACH.
Inhalation MAY CAUSE RESPIRATORY TRACT IRRITATION.
Carcinogenicity: *NTP* NO *IARC* NO *OSHA* NO

SECTION 4 - FIRST AID PROCEDURES

Eye Contact: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.
Skin Contact: IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION.
Inhalation: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.
Ingestion: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point (°F) 644
Extinguishing Media USE MEDIA APPROPRIATE FOR SURROUNDING MATERIALS. USE WATER SPRAY TO COOL CONTAINERS EXPOSED TO FIRE; DO NOT GET WATER INSIDE

CONTAINERS.

Special Firefighting Procedures/Precuations

WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. STAY UPWIND AND KEEP OUT OF LOW AREAS. KEEP UNNECESSARY PEOPLE AWAY, ISOLATE AREA AND DENY ENTRY. DIKE AREA TO PREVENT RUN-OFF AND CONTAMINATION OF WATER SOURCES. COOL CONTAINERS EXPOSE

SECTION 6 - ACCIDENTAL RELEASE MEASURES

For Spill:

PREVENT LIQUID FROM ENTERING SEWERS AND WATERWAYS. CONTAIN SPILL AND ABSORB WITH DRY SAND, CLAY OR DIATOMACEOUS EARTH IF POSSIBLE. LARGE SPILLS SHOULD BE DIKED AND CAUTIOUSLY DILUTED AND NEUTRALIZED WITH LIME OR SODA ASH.

SECTION 7 - HANDLING AND STORAGE

Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area, away from heat and incompatible materials. Protect containers from physical damage.

DO NOT ADD WATER TO CONTENTS WHILE IN CONTAINER BECAUSE OF VIOLENT REACTION.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection

USE A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS WHERE DUST OR MIST MAY BE GENERATED.

Ventilation

LOCAL AND MECHANICAL RECOMMENDED.

Protective Gloves

CHEMICAL IMPERVIOUS GLOVES.

Eye/Face Protection

CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD.

Other Protection

CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC.

Work Practices

USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F): 379 - 621 **Vapor Pressure (mmHg):** < 0.3 - 0.6

Freezing Point (°F): NOT ESTABLISHED **Vapor Density (Air=1):** 3.4

Solubility (H2O): 100% **Specific Gravity (H2O=1):** 1.71 - 1.84

pH < 1 **Evaporation Rate:** < 1

Appearance/Odor: EXTREMELY SLIPPERY CLEAR VISCOUS LIQUID W/ODORLESS TO SHARP PUNGENT.

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: YES

Incompatible Material: WATER, ALKALINE SOLUTIONS, METALS, METAL POWDERS, CARBIDES, CHLORATES, FUMINATES, NITRATES, PICRATES, STRONG OXIDIZING, REDUCING, OR COMBUSTIBLE ORGANICS.

Hazardous Polymerization: WILL NOT OCCUR.

Decomposition Products: OXIDES OF SULFUR AT HIGH TEMPERATURES. HAZARDOUS GASES EVOLVED ON CONTACT WITH CHEMICALS SUCH AS CYANIDES, SULFIDES, AND CARBIDES.

SECTION 11 - TOXICITY INFORMATION

LD50 INGESTION (rat) = 2140 mg/kg
LD50 (mouse) - 320 mg/cu m/2 Hr
LC50 INHALATION (guinea pig) = 30 mg/cu m

