

SULFURIC ACID

MSDS Number

BBJCG

National Stock Number

6810-00-161-1104

Product Name

SULFURIC ACID

Manufacturer

J T BAKER CHEMICAL CO

Product Identification

Product ID: SULFURIC ACID

MSDS Date: 05/17/1989

FSC: 6810

NIIN: 00-161-1104

MSDS Number: BBJCG

Responsible Party

J. T. BAKER CHEMICAL CO

222 RED SCHOOL LANE

PHILLIPSBURG , NJ 08865

Emergency Phone: (201) 859-2151

Info Phone: (201) 859-2151

Cage: EO543

Contractor

MALLINCKRODT BAKER, INC.

PHILLIPSBURG, NJ 08865

US

800-582-2537

Cage: 70829

Ingredients

SULFURIC ACID (SARA III)

CAS: 7664-93-9

RTECS: WS5600000

Fraction By Weight: 90-98%

OSHA PEL1 MG/M3

ACGIH TLV: 1 MG/M3; 9192

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

WATER, H2O

CAS: 7732-18-5

RTECS: ZC0110000

Fraction By Weight: 2-10%

Hazards

LD50 LC50 Mixture:LD50 ORAL (RAT): 2140 MG/KG
 Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
 Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
 Health Hazards Acute and Chronic:INHALATION: SEVERE IRRITATION OR BURNS OF RESPIRATORY SYSTEM, PULMONARY EDEMA, LUNG INFLAMMATION. SKIN/EYES: SEVERE BURNS. INGESTION: NAUSEA, VOMITING, SEVERE BURNS TO MOUTH, THROAT, & STOMACH, KIDNEY DISFUNCTION.
 Explanation of Carcinogenicity:NONE
 Effects of Overexposure:INHALATION: SEVERE IRRITATION OR BURNS OF RESPIRATORY SYSTEM, PULMONARY EDEMA, & LUNG INFLAMMATION. SKIN/EYES: SEVERE BURNS. INGESTION: NAUSEA, VOMITING, SEVERE BURNS TO MOUTH, THROAT, & STOMACH, & KIDNEY DISFUNCTION. THIS PRODUCT CAN CAUSE SEVERE INJURY & EVEN DEATH, IF IMPROPERLY HANDLED/KNOWN DANGERS ARE NOT HEADED.
 Medical Cond Aggravated by Exposure:RESPIRATORY SYSTEM DISEASE

First Aid

First Aid:INGESTION: DON'T INDUCE VOMITING. IF CONSCIOUS, GIVE LARGE AMOUNTS OF WATER. CALL PHYSICIAN. INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SKIN: FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE/WASH CONTAMINATED CLOTHING BEFORE REUSE. EYES: FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MINUTES.

Fire Fighting

Extinguishing Media:DRY CHEMICAL, CO2, WATER
 Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT & SCBA W/FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE. DON'T GET WATER INSIDE CONTAINERS.
 Unusual Fire/Explosion Hazard:VIOLENT EXOTHERMIC REACTION OCCURS W/WATER. SUFFICIENT HEAT MAY BE PRODUCED TO IGNITE COMBUSTION MATERIALS. REACTS W/METALS TO FORM AN EXPLOSIVE MIXTURE IN AIR.

Accidental Release

Spill Release Procedures:WEAR FULL PROTECTIVE CLOTHING. STOP LEAK W/O RISK. DON'T USE WATER. NEUTRALIZE SPILL & WASHING W/SODA ASH OR LIME. WITH CLEAN SHOVEL, PLACE MATERIAL INTO CLEAN, DRY CONTAINER & COVER. MOVE CONTAINERS FORM SPILL AREA.
 Neutralizing Agent:SODA ASH & LIME

Handling

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. STORE IN CORROSION-PROOF AREA. KEEP CONTAINERS OUT OF SUN & AWAY FROM HEAT. ISOLATE FORM INCOMPATIBLE MATERIALS.
 Other Precautions:DON'T GET IN EYES/SKIN/CLOTHING. DON'T BREATHE VAPOR. KEEP IN TIGHTLY CLOSED CONTAINER. LOOSEN CLOSURE CAUTIOUSLY. WASH THOROUGHLY AFTER HANDLING.

Exposure Controls

Respiratory Protection:IF >TLV, USE A SELF-CONTAINED BREATHING APPARATUS.
 Ventilation:PROVIDE MECHANICAL & LOCAL EXHAUST VENTILATION TO KEEP
 Protective Gloves:RUBBER
 Eye Protection:SAFETY GOGGLES, FACE SHIELD
 Other Protective Equipment:APPROVED WORKING CLOTHING AND RUBBER BOOTS.
 Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.
 Supplemental Safety and Health

Chemical Properties

Boiling Pt:B.P. Text:620F
 Melt/Freeze Pt:M.P/F.P Text:28F
 Vapor Pres:Vapor Density:3.4
 Spec Gravity:1.84
 pH:1.0
 Evaporation Rate & Reference:(BU AC = 1): Solubility in Water:COMPLETE
 Appearance and Odor:CLEAR, COLORLESS TO YELLOW VISCOUS LIQUID, ODORLESS

Stability

Stability Indicator/Materials to Avoid: YES

WATER, METALS, ORGANIC MATERIALS, STRONG AGENTS, BASES, SULFIDES, CYANIDES, STRONG OXIDIZING AGENTS, CARBIDES

Stability Condition to Avoid: MOISTURE, HEAT

Hazardous Decomposition Products: OXIDES OF SULFUR, HYDROGEN

Disposal

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. D002, D003 (CORROSIVE, REACTIVE WASTE).

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