

SULFURIC ACID 96%

MSDS Number

BCTKN

National Stock Number

6810-00N009848

Product Name

SULFURIC ACID 96%

Manufacturer

MALLINCKRODT INC SCIENCE PRODUCTS DIV

Product Identification

Product ID:SULFURIC ACID 96%

MSDS Date:10/21/1986

FSC:6810

NIIN:00N009848

MSDS Number: BCTKN

Responsible Party

MALLINCKRODT INC., SCIENCE PRODUCTS DIVISION

PARIS , KY 40361-0315

US

Cage: 1BF21

Contractor

MALLINCKRODT INC., SCIENCE PRODUCTS DIV

M

PARIS, KY 40361-0315

US

314-982-5000

Cage: 1BF21

Ingredients

SULFURIC ACID (SARA III)

CAS: 7664-93-9

RTECS: WS5600000

Fraction By Weight: 96%

OSHA PEL1 MG/M3

ACGIH TLV: 1 MG/M3; 9192

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

Hazards

LD50 LC50 Mixture:ORAL RAT LD50:2140 MG/KG;INHAL:(SUP DAT)

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INGES:CORRO. SWALLOW CAN CAUS SEVERE

BURN OF MOUTH,THROAT & STOMACH,LEADNG TO DEATH.CAN CAUS SORE

THROAT,VOMIT,DIARRHEA.SKN:CORRO.SYM OF RDNESS,PAIN,& SEVERE BURN

CAN OCCUR.EYE:CORRO.SPLASH CAN CAUS B LURRD VISION,RDNESS,PAIN &

SEVERE TISS BURN.INHAL:INHAL PROD DAMAG EFFECT ON MUCOUS MEMBRANE &

UPPR RESP(SGN&SYM OVEXPSR

Explanation of Carcinogenicity:NOT APPLICABLE

Effects of Overexposure:TRACT.MAY CAUS LUNG EDEMA.SYM MAY INCLUDE IRRITATION OF NOSE & THROAT,& LABOR DYSFUNCTION. CHRONIC EXPOSURE:LONG-TERM EXPOSURE TO MIST/VAPORS MAY CAUSE DAMAGE TO TEETH.
DANGER!CORROSIVE.LIQ & MIST CAUS SEVERE BURNS TO ALL BODY TISSUES.MAY BE FATAL IF SWALLOWED.HARMFUL IF INHALED.INHALATION MAY CAUS LUNG DAMAGE.
Medical Condition Aggravated by Exposure:PERSON WITH PRE-EXISTING SKIN DISORDERS/EYE PROBLEMS/IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE

First Aid

First Aid:IN ALL CASES CALL A PHYSICIAN.EYE:IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15MIN,LIFTING LOWER & UPPER EYELIDS OCCASIONALLY.GET MEDICAL ATTENTION IMMEDIATELY.INHALATION:MOVE TO FRESH AIR.SUPPORT BREATHING(GIVE O₂/ART RESPIRATION).SKIN:IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15MIN WHILE REMOVING CONTAMINATED CLOTHING & SHOES.CALL PHYSICIAN:DO NOT INDUCE VOMITING.GIVE LARGE QUANTITY OF WATER/MILK IF AVAILABLE.CALL PHYSICIAN IMMEDIATELY NEVER GIVE ANYTHING BY MOUTH (SUPPORT DATA)

Fire Fighting

Flash Point:NOT COMBUSTIBLE
Lower Limits:N/A
Upper Limits:N/A
Extinguishing Media:DRY CHEMICAL,FOAM OR CARBON DIOXIDE. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING & NIOSH/MSHA APPROVED SCBA WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.
Unusual Fire/Explosion Hazard:NOT COMBUSTIBLE,BUT SUBSTANCE IS STRONG OXIDIZER & ITS HEAT OF REACTION WITH REDUCING AGENT/COMBUSTIBLE MAY CAUSE IGNITION.REACT WITH MOST METALS RELEASES FLAMMABLE,POTENTIAL EXPLOSION HYDROGEN GAS.

Accidental Release

Spill Release Procedures:DIKE & COVER LEAKING/SPLLED LIQUID WITH DIRT,VERMICULITE,KITTY-LITTER/OTHER INERT ABSORBENT. COVER SPLLED WITH SODIUM BICARBONATE/SODA ASH & MIX.CLEAN-UP PERSONNEL REQUIRE PROTECTIVE CLOTHING & RESPIRATORY PROTECTION FROM VAPORS & MISTS.
Neutralizing Agent:NOT KNOWN

Handling

Handling and Storage Precautions:STORE IN COOL,DRY,VENTILATED STORAGE AREA WITH ACID RESISTANT FLOOR&GOOD DRAIN.PROTECT FROM PHYSICAL DAMAGE.KEEP OUT OF DIRECT SUNLIGHT&AWAY FROM HEAT,WATER,& INCOMPATIBLE MATERIALS.DO NOT (SUPPORT DATA)
Other Precautions:DO NOT GET IN EYE,ON SKIN,/ON CLOTHING.DONOT BREATHE MIST.KEEP CONTAINER CLOSED.USE ONLY WITH ADEQUATE VENTILATION.WASH THOROUGHLY AFTER HANDLING.THIS SUBSTANCE IS CLASSIFIED AS A POISON UNDER THE FEDERAL CAUSTIC POISON ACT.

Exposure Controls

Respiratory Protection:IF TLV IS EXCEEDED A NIOSH/MSHA FULL FACEPIECE CHEMICAL CARTRIDGE RESPIRATOR MAY BE WORN,IN GENERAL,UP TO 100 TIMES THE TLV/MAXIMUM USE CONCENTRATION SPECIFIED BY RESP SUPPLIER,WHICHEVER IS LESS.ALTERNATIVELY, A SUPPLIED AIR FULL FACEPIECE RESPIRATOR/AIRLINED HOOD MAY BE WORN.
Ventilation:LOCAL & GENERAL EXHAUST RECOMMENDED.LOCAL EXHAUST VENT IS PREFERRED.REFER TO ACGIH DOCUMENT,(INDUSTRIAL VENT)FOR DETAILS.
Protective Gloves:YES
Eye Protection:CHEMICAL WORK GOGGLES & FULL FACE SHIELD
Other Protective Equipment:IMPERMEABLE PROTECTIVE CLOTHING, INCLUDING BOOTS, LAB COAT,APRON/COVERALL TO PREVENT CONTACT.MAINTAIN EYE WASH FOUNTAIN & QUICK-DRENCH (SUPPORT DATA)
Work Hygienic Practices:NOT KNOWN
Supplemental Safety and Health
PCT VOLT-VOLTAGE:N/A.FLAME TEST:NEGATIVE.HAZARD DECOMPOSITION:CYANIDE&SULFIDE TO FORM POISONOUS HYDROGEN CYANIDE&HYDROGEN SULFIDE RESPECTIVELY.ROUTE OF ENTRY:FOUNDRY OTHER PROTECTIVE EQUIPMENT:FACILITATE IN WORK AREA.EMERGENCY FIRST AID PROCEDURE:TO AN UNCONSCIOUS PERSON.LD50-LC50 MIX: PIG LC50 :18MG/M3.HANDLING/STORAGE PRECAUTIONS:WASH OUT CONTACT&USE FOR OTHER PURPOSES WHEN DILUTED,ALWAYS ADD ACID TO WATER,NEVER ADD WATER TO ACID.

Chemical Properties

Boiling Pt:B.P. Text:590F/310C
Melt/Freeze Pt:M.P/F.P Text:-14C
Decomp Temp:Decomp Text:N/K
Vapor Pres:1
Vapor Density:Spec Gravity:1.84
pH:N/K-FP
Evaporation Rate & Reference:NO INFORMATION FOUND
Solubility in Water:INFINITE AT 20C
Appearance and Odor:COLORLESS, OILY LIQUID, ODORLESS
Percent Volatiles by Volume:N/K-FP
Corrosion Rate:

Stability

Stability Indicator/Materials to Avoid:YES
WTR,BASES,ORGANIC MATL,HALOGENS,METAL ACETYLIDES,OXIDES & HYDRIDE,STRNG
OXID & RDUCNG AGENTS & MNY OTHR REACT SUBSTANCE
Stability Condition to Avoid:STABLE UNDER ORDINARY CONDITIONS OF USE &
STORAGE .
Hazardous Decomposition Products:TOX FUM OF OXIDE OF SULFUR.WILL REACT
W/WTR/STM TO PROD TOX&CORRO FUM.REACT W/CARBONATE TO GENER CO*2
GAS,& W/ (SUP DAT)

Disposal

Waste Disposal Methods:NEUTRALIZED WASTE MAY BE CONTAINERIZED &
DISPOSED IN A BCRA APPROVED WASTE DISPOSAL FACILITY. FLUSH AREA OF
SPILL W/DILUTE SODA ASH SOLUTION & DISCARD TO SEWER. DISPOSE OF IN
ACCORDANCE W/LOCAL,STATE, & FEDERAL REGULATIONS

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