



Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300 or 202-483-7616

# MATERIAL SAFETY DATA SHEETS

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Part Number/Trade Name: Sulfuric acid

This MSDS is valid for all grades and catalog numbers

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### General Information

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Company's Name: PHARMCO PRODUCTS, INC.

Company's Street: 58 VALE RD.

Company's City: BROOKFIELD

Company's State: CT

Company's Zip Code: 06804

Company's Emerg Ph #: (203) 740-3471

Company's Info Ph #: (203) 740-3471

Date MSDS Revised: Nishant-8/23/99

Safety Data Review Date: 8/23/99

Preparer's Company: PHARMCO PRODUCTS, INC.

Preparer's St Or P. O. Box: 58 VALE RD.

Preparer's City: BROOKFIELD

Preparer's State: CT

Preparer's Zip Code: 06804

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### Ingredients/Identity Information

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Ingredient: SULFURIC ACID (SARA III)

Ingredient Sequence Number: 01

Percent: 28.9

NIOSH (RTECS) Number: WS5600000

CAS Number: 7664-93-9

OSHA PEL: 1 MG/M3

ACGIH TLV: 1 MG/M3; 9192

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### Physical/Chemical Characteristics

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Appearance And Odor: SLIGHTLY VISCOUS, CLEAR TO SLIGHTLY CLOUDY LIQUID.

Boiling Point: 233F,112C

Melting Point: UNKNOWN

Vapor Pressure (MM Hg/70 F): UNKNOWN

Vapor Density (Air=1): UNKNOWN

Specific Gravity: 1.285

Decomposition Temperature: UNKNOWN

Evaporation Rate And Ref: < 1.0 (ETHER = 1)

Solubility In Water: COMPLETE

Viscosity: UNKNOWN

Corrosion Rate (IPY): UNKNOWN

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Fire and Explosion Hazard Data

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Flash Point: NOT APPLICABLE  
Extinguishing Media: CARBON DIOXIDE, FOAM, DRY CHEMICAL  
Special Fire Fighting Proc: USE A GAS MASK WITH A SULFURIC ACID ABSORBING  
CANISTER APPROVED BY THE U.S. BUREAU OF MINES.  
Unusual Fire And Expl Hazrds: SULFURIC ACID REACTS WITH STEEL AND MANY  
COMMON METALS TO PRODUCE HYDROGEN GAS WHICH CAN BE A FIRE AND EXPLOSION  
HAZARD.

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Reactivity Data

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Stability: YES  
Cond To Avoid (Stability): HIGH HEAT, MOISTURE  
Materials To Avoid: COMBUSTIBLE MATERIALS, NITRATES, CARBIDES, CHLORATES,  
POWDERED METALS  
Hazardous Decomp Products: OXIDES OF SULFUR, HYDROGEN SULFIDE, HYDROGEN  
GAS  
Hazardous Poly Occur: NO

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Health Hazard Data

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LD50-LC50 Mixture: UNKNOWN  
Route Of Entry - Inhalation: YES  
Route Of Entry - Skin: NO  
Route Of Entry - Ingestion: NO  
Carcinogenicity - NTP: NO  
Carcinogenicity - IARC: NO  
Carcinogenicity - OSHA: NO  
Signs/Symptoms Of Overexp: SEVERE BURNS TO SKIN AND EYES. INHALATION OF  
MIST FROM HOT SULFURIC ACID CAN BE INJURIOUS TO LUNGS.  
Emergency/First Aid Proc: IN CASE OF CONTACT IMMEDIATELY FLUSH SKIN OR  
EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. FOR EYES AND SKIN BURNS,  
GET IMMEDIATE MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. REMOVE AND  
ISOLATE CONTAMINATED CLOTHING AND SHOES. KEEP VICTIM QUIET AND MAINTAIN  
NORMAL TEMPERATURES.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: FLUSH WITH PLENTY OF WATER & NEUTRALIZE ACID  
W/SUCH AS SODA ASH,LIME,ETC;SODA ASH & LIMESTONE WILL RELEASE CO2 GAS  
REQUIRING ADEQUATE VENTILATION.SMALL SPILLS:TAKE UP W/SAND OR OTHER NON  
COMBUST.MATL ABSORBENTS.LARGE SPILLS:DIKE FAR AHEAD OF SPILL.  
Neutralizing Agent: SODA ASH OR LIME  
Waste Disposal Method: NEUTRALIZE ACID WITH ALKALI AND FLUSH TO AN  
APPROVED DISPOSAL AREA WITH PLENTY OF WATER IF PERMITTED BY LOCAL AND  
STATE  
REGULATIONS. IN SOME CASES, WASTE MAY HAVE TO BE HAULED AWAY BY A  
DISPOSAL  
CONTRACTOR.  
Precautions-Handling/Storing: FLAMMABLE HYDROGEN GAS IS GENERATED IN STEEL

DRUMS AND TANKS CONTAINING SULFURIC ACID. NO IGNITION SOURCES PERMITTED IN AREA.

Other Precautions: UNNEUTRALIZED ACID MUST NOT CONTACT SULFIDE WASTES (SUCH AS IN SEWERS) TO AVOID EVOLVING POISONOUS SULFIDE GAS. VENTILATE DRUMS WEEKLY, OR MORE FREQUENTLY IN HOT WEATHER. DO NOT STORE NEAR INCOMPATIBLES.

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Control Measures  
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Respiratory Protection: INDUSTRIAL CANISTER TYPE GAS MASK APPROVED BY U.S. BUREAU OF MINES  
Ventilation: LOCAL EXHAUST AS REQUIRED TO REMOVE ANY MISTS OF TOXIC GASES  
Protective Gloves: RUBBER  
Eye Protection: CHEMICAL SAFETY GOGGLES  
Other Protective Equipment: FACE SHIELD, RUBBER APRONS, RUBBER SAFETY SHOES, PROTECTIVE CLOTHING  
Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING. NEVER ADD WATER TO SULFURIC ACID. ALWAYS ADD SULFURIC ACID TO WATER SLOWLY.

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Transportation Data  
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DOT PSN Code: BQX  
DOT Proper Shipping Name: BATTERY FLUID, ACID  
DOT Class: 8  
DOT ID Number: UN2796  
DOT Pack Group: II  
DOT Label: CORROSIVE  
IMO PSN Code: BWH  
IMO Proper Shipping Name: BATTERY FLUID, ACID  
IMO Regulations Page Number: SEE 8230  
IMO UN Number: 2796  
IMO UN Class: 8  
IMO Subsidiary Risk Label: -  
IATA PSN Code: DAG  
IATA UN ID Number: 2796  
IATA Proper Shipping Name: BATTERY FLUID, ACID  
IATA UN Class: 8  
IATA Label: CORROSIVE  
AFI PSN Code: DAG  
AFI Prop. Shipping Name: BATTERY FLUID, ACID  
AFI Class: 8  
AFI ID Number: UN2796  
AFI Pack Group: II  
AFI Label: CORROSIVE  
AFI Special Prov: A3,A7,N6,N34  
AFI Basic Pac Ref: 12-5,12-10

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Disposal Data  
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Landfill Ban Item: YES  
Disposal Supplemental Data: IN CASE OF ACCIDENTAL EXPOSURE OR DISCHARGE, cONSULT HEALTH AND SAFETY FILE FOR PRECAUTIONS.  
1st EPA Haz Wst Code New: D002  
1st EPA Haz Wst Name New: CORROSIVE  
1st EPA Haz Wst Char New: CORROSIVITY  
1st EPA Acute Hazard New: NO

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Label Data  
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Special Hazard Precautions: POISONOUS IF INHALED OR SWALLOWED. CONTACT

CAUSES SEVERE BURNS TO SKIN AND EYES. RUNOFF FROM FIRE CONTROL OR DILUTION WATER MAY CAUSE POLLUTION.

The information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.