Item Name: O-PHOSPHORIC ACID 85%
Company's Name: SIGMA CHEMICAL CO
Company's Street: 14508
Company's City: ST LOUIS
Company's State: MO
Company's Country: US
Company's Zip Code: 63178
Company's Emerg Ph #: 314-771-5765
Company's Info Ph #: 314-771-5765
Distributor/Vendor # 1: 
Distributor/Vendor # 1 Cage: 
Distributor/Vendor # 2: 
Distributor/Vendor # 2 Cage: 
Distributor/Vendor # 3: 
Distributor/Vendor # 3 Cage: 
Distributor/Vendor # 4: 
Distributor/Vendor # 4 Cage: 
Safety Data Action Code: A
Safety Focal Point: N
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SMJ
Date MSDS Prepared: 27NOV92
Safety Data Review Date: 15APR98
Supply Item Manager: 
MSDS Preparer's Name: 
Preparer's Company: 
Preparer's St Or P. O. Box: 
Preparer's City: 
Preparer's State: 
Preparer's Zip Code: 
Other MSDS Number: 
MSDS Serial Number: CGVLV
Specification Number: 
Spec Type, Grade, Class: 
Hazard Characteristic Code: 
Unit Of Issue: 
Type Of Container: 
Net Unit Weight: 
NRC/State License Number: 
Net Explosive Weight: 
Net Propellant Weight-Ammo: 
Coast Guard Ammunition Code: 
Ingredients/Identity Information
Ingredient: PHOSPHORIC ACID (SARA 313) (CERCLA)
Ingredient Sequence Number: 01
Percent: 85
Ingredient Action Code: A
Ingredient Focal Point: N
NIOSH (RTECS) Number: TB6300000
CAS Number: 7664-38-2
OSHA PEL: 1 MG/M3
ACGIH TLV: 1 MG/M3;3 STEL
Other Recommended Limit: N/K

Physical/Chemical Characteristics

Appearance And Odor: COLORLESS LIQUID.
Boiling Point: N/K
Melting Point: N/K
Vapor Pressure (MM Hg/70 F): 2.2 @ 20C
Vapor Density (Air=1): 3.4
Specific Gravity: 1.685
Decomposition Temperature: N/K
Evaporation Rate And Ref: N/K
Solubility In Water: N/K
Percent Volatiles By Volume: N/K
Viscosity: pH: N/K
Radioactivity: Form (Radioactive Matl):
Magnetism (Milligauss):
Corrosion Rate (IPY): N/K
Autoignition Temperature:

Fire and Explosion Hazard Data

Flash Point: NONE
Flash Point Method: N/P
Lower Explosive Limit: N/K
Upper Explosive Limit: N/K
Extinguishing Media: NONCOMBUSTIBLE. USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.
Special Fire Fighting Proc: USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N).
Unusual Fire And Expl Hazrd: EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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Reactivity Data

Stability: YES
Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.
Materials To Avoid: STRONG BASES. FINELY POWDERED METALS. FORMS A DETONABLE MIXTURE W/NITROMETHANE.
Hazardous Decomp Products: NONE SPECIFIED BY MANUFACTURER.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT

Health Hazard Data

LD50/LC50 Mixture: LD50:(ORAL,RAT) 1530 MG/KG.
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: ACUTE:HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN. INHALATION MAY BE FATAL AS A RESULT OF SPASM, INFLAMMATION AND EDEMA OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY (EFTS OF OVEREXP)
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT
Signs/Symptoms Of Overexp: HLTH HAZ:EDEMA. SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING. TARGET ORGAN DATA:BEHAVIORAL (SOMNOLENCE); KIDNEY, URETER, BLADDER (HEMATURIA); SKIN AND APPENDAGES (HAIR).
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: EYES:IMMED FLUSH W/COPIOUS AMTS OF WATER FOR AT LST 15 MINS. ASSURE ADEQ FLUSHING BY SEPARATING EYELIDS W/FINGERS. SKIN: IMMED FLUSH W/COPIOUS AMTS OF WATER FOR AT LST 15 MINS WHILE REMOVING CONTAM CLTHG & SHOES. WASH CONTAM CLTHG BEFORE REUSE. DISCARD CONTAM SHOES. INHAL:REMOVE TO FRESH AIR. IF NOT BRTHG GIVE ARTF RESP. IF BRTHG IS DFCLT, GIVE OXYG. INGEST:WASH OUT MOUTH W/WATER PROVIDED (SUPDAT)
Precautions for Safe Handling and Use
Steps If Matl Released/Spill: EVACUATE AREA. WEAR NIOSH APPROVED SCBA, RUBBER BOOTS & HEAVY RUBBER GLOVES. COVER W/DRY LIME OR SODA ASH, PICK UP, KEEP IN CLOSED CONTAINER & HOLD FOR WASTE DISPOSAL. VENTILATE AREA & WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
Neutralizing Agent: DRY LIME OR SODA ASH.
Waste Disposal Method: DISP MUST BE I/A/W FED, STATE & LOC REGS (FP N). FOR SM QTYS:CAUTIOUSLY ADD TO LG STIRRED EXCESS OF WATER. ADJUST PH TO NEUT, SEPA RATE ANY INSOL SOLIDS/LIQS & PACKAGE THEM FOR HAZ-WASTE DISP. FLUSH AQ SOIN DOWN DRAIN W/PLENTY OF WATER. THE (SUPDAT)
Precautions-Handling/Storing: DO NOT BREATHE VAPOR. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE. HARMFUL LIQUID. KEEP TIGHTLY CLOSED.
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Other Precautions: STORE IN A COOL, DRY PLACE. CORROSIVE. CAUSES BURNS. HARMFUL BY INHALATION, IN CONTACT W/SKIN & IF SWALLOWED.
Control Measures
Respiratory Protection: NIOSH APPROVED RESPIRATOR.
Ventilation: MECHANICAL EXHAUST REQUIRED.
Protective Gloves: HEAVY RUBBER GLOVES.
Eye Protection: ANSI APPROVED CHEM WORKERS GOGGS(SUPDAT)
Other Protective Equipment: EYE WASH FOUNTAIN & DELUGE SHOWER WHICH MEET ANSI DESIGN CRITERIA (FP N). WEAR SUITABLE PROTECTIVE CLOTHING.
Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING. TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.
Suppl. Safety & Health Data: FIRST AID PROC:PERSON IS CONSCIOUS. CALL MD. WASTE DISP METH:HYDROLYSIS & NEUTRALIZATION REACTIONS MAY GENERATE HEAT & FUMES WHICH CAN BE CONTROLLED BY RATE OF ADDITION. EYE PROT:& FULL LENGTH FACESHIELD (FP N).
Transportation Action Code:
Transportation Focal Point:
Trans Data Review Date:
DOT PSN Code:
DOT Symbol:
DOT Proper Shipping Name:
DOT Class:
DOT ID Number:
DOT Pack Group:
DOT Label:
DOT/DoD Exemption Number:
IMO PSN Code:
IMO Proper Shipping Name:
IMO Regulations Page Number:
IMO UN Number:
IMO UN Class:
IMO Subsidiary Risk Label:
IATA PSN Code:
IATA UN ID Number:
IATA Proper Shipping Name:
IATA UN Class:
IATA Subsidiary Risk Class:
IATA Label:
AFI PSN Code:
AFI Symbols:
AFI Prop. Shipping Name:
AFI Class:
AFI ID Number:
AFI Pack Group:
AFI Label:
AFI Special Prov:
AFI Basic Pac Ref:
MMAC Code:

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N.O.S. Shipping Name:
Additional Trans Data:

Disposal Data

Rec # For This Disp Entry:
Tot Disp Entries Per NSN:
Landfill Ban Item:
Disposal Supplemental Data:
1st EPA Haz Wst Code New:
1st EPA Haz Wst Name New:
1st EPA Haz Wst Char New:
1st EPA Acute Hazard New:
2nd EPA Haz Wst Code New:
2nd EPA Haz Wst Name New:
2nd EPA Haz Wst Char New:
2nd EPA Acute Hazard New:
3rd EPA Haz Wst Code New:
3rd EPA Haz Wst Name New:
3rd EPA Haz Wst Char New:
3rd EPA Acute Hazard New:
Label Data

Label Required: YES
Technical Review Date: 16APR98
Label Date: 15APR98
MFR Label Number:
Label Status: M
Common Name: O-PHOSPHORIC ACID 85%
Chronic Hazard: YES
Signal Word: DANGER!
Acute Health Hazard-None:
Acute Health Hazard-Slight:
Acute Health Hazard-Moderate: X
Acute Health Hazard-Severe:
Contact Hazard-None:
Contact Hazard-Slight:
Contact Hazard-Moderate:
Contact Hazard-Severe: X
Fire Hazard-None: X
Fire Hazard-Slight:
Fire Hazard-Moderate:
Fire Hazard-Severe:
Reactivity Hazard-None: X
Reactivity Hazard-Slight:
Reactivity Hazard-Moderate:
Reactivity Hazard-Severe:
Special Hazard Precautions: ACUTE:HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN. INHALATION MAY BE FATAL AS A RESULT OF SPASM, INFLAMMATION AND EDEMA OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA. TARGET ORGAN DATA:
BEHAVIORAL (SOMNOLENCE); KIDNEY, URETER, BLADDER (HEMATURIA); SKIN AND APPENDAGES (HAIR). CHRONIC:NONE LISTED BY MANUFACTURER.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: SIGMA CHEMICAL CO
Label Street:
Label P.O. Box: 14508
Label City: ST LOUIS
Label State: MO
Label Zip Code: 63178
Label Country: US
Label Emergency Number: 314-771-5765
Year Procured: