

MONSANTO CO -- PHOSPHORIC ACID -- 6810-00-264-6722

===== Product Identification =====

Product ID:PHOSPHORIC ACID

MSDS Date:12/12/1988

FSC:6810

NIIN:00-264-6722

MSDS Number: BDQWC

=== Responsible Party ===

Company Name:MONSANTO CO

Address:800 N LINDBERGH BLVD

City:ST LOUIS

State:MO

ZIP:63167

Country:US

Info Phone Num:314-694-2333

Emergency Phone Num:314-694-1000 COLLECT

CAGE:76541

=== Contractor Id

entification ===

Company Name:MONSANTO COMPANY

Address:800 N LINDBERGH BLVD

Box:City:SAINT LOUIS

State:MO

ZIP:63167

Country:US

Phone:314-694-6661 OR 800-332-3111

CAGE:76541

===== Composition/Information on Ingredients =====

Ingred Name:PHOSPHORIC ACID (SARA III)

CAS:7664-38-2

RTECS #:TB6300000

Fraction by Wt: 75 - 85%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3/3 STEL

ACGIH TLV:1 MG/M3/3 STEL; 9293

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

===== Haza

Product Identification =====

LD50 LC50 Mixture:LD50 (ORAL, RAT) 3,500-4,400 MG/KG

Routes of Entry: Inhalation:NO Skin:NO Ingestion:YES

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

Health Hazards Acute and Chronic:CORROSIVE. ACUTE- EYE:MAY CAUSE SEVERE IRRITATION, BURNS, PERMANENT TISSUE DAMAGE. SKIN:MAY CAUSE SEVERE IRRITATION. NO IMMEDIATE BURNING SENSATIONS MAY BE EXPECTED. INHALED:MIST/VAPORS MAY CAUSE SEVERE RESPIRATORY IRRITATION. ORAL:MAY CAUSE SEVERE

DIGESTIVE SYSTEM IRRITATION & BURNS, TISSUE DAMAGE.CHRONIC- UNKNOWN.

Effects of Overexposure:CORROSIVE. SEVERE EYES, SKIN, RESPIRATORY AND DIGESTIVE TRACTS IRRITATION AND BURNS

Medical Condition Aggravated by Exposure:NOT KNOWN

===== First Aid Measures =====

First Aid:GET MEDICAL ATTENTION IMMEDIATELY. EYE/SKIN:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN.

INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:DO

NOT INDUCE VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF WATER/MILK. CALL A PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

===== Fire Fighting Measures =====

Flash Point:NONE

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:CAN REACT WITH METALS TO LIBERATE HYDROGEN, A FLAMMABLE GAS.

===== Accidental Release Measures =====

Spill Release Procedures:WEAR FACE PROTECTION, RUBBER BOOTS, APRON AND GLOVES. DIKE SPILL WITH SAND OR CLAY TO KEEP IT OUT OF SEWER SYSTEM. NEUTRALIZE WITH SODA ASH. REQUIRES GOOD VENTILATION AS CO2 IS PRODUCED. PLACE NEUTRALIZED SPILL IN DOT APPROVED DISPOSAL CONTAINER

Neutralizing Agent

gent:SODA ASH

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN PLASTIC, RUBBER-LINED OR 316 STAINLESS STEEL TANKS DESIGNED FOR H₃PO₄. STORE DRUMS AWAY FROM HEAT AND OUT OF DIRECT SUNLIGHT.

Other Precautions:KEEP OUT OF REACH OF CHILDREN. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID BREATHING MISTS OR VAPORS. WASH THOROUGHLY AFTER HANDLING.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF LEVELS EXCEED THE RECOMMENDED HEALTH STANDARDS, WEAR A NIOSH/MSHA APPROVED ORGANIC VAPOR RESPIRATOR FOR ACID. FOR EMERGENCY USE, WEAR A NIOSH APPROVED POSITIVE-PRESSURE MODE, SELF-CONTAINED BREATHING APPARATUS (SCBA).

Ventilation:PROVIDE SUFFICIENT LOCAL EXHAUST VENTILATION TO CONTROL INHALATION EXPOSURES BELOW OSHA'S PEL.

Protective Gloves:NEOPRENE OR RUBBER

Eye Protection:SAFETY GOGGLES & FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:C1

Boiling Pt:B.P. Text:275F-309F

Melt/Freeze Pt:M.P/F.P Text:0.5F - 70F

Vapor Pres:0.03 @ 68F

Spec Gravity:1.575 - 1.692

pH:< 2

Evaporation Rate & Reference:NOT RELEVANT

Solubili

ty in Water:COMPLETE

Appearance and Odor:CLEAR, COLORLESS, SYRUPY LIQUID - NO ODOR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG ALKALIES, METALS, SULFIDES AND SULFITES

Stability Condition to Avoid:EXCESSIVE HEAT

Hazardous Decomposition Products:NONE

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL
APPLICABLE FEDERAL, STATE AND L

OCAL LAWS AND REGULATIONS.

REPORTABLE QUANTITY (RQ) IS 5000 LBS.

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