

Material Safety Data Sheet

Provided by:

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name PHOSPHORIC ACID

Synonyms

Chemical Name PHOSPHORIC ACID

Emergency phone: 281-457-4888

Date of Issue: 10/01/00

Chemtrec: 800-424-9300

Revised Date: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	PERCENT	CAS NO.
WATER	N/P	7732-18-5
PHOSPHORIC ACID	50% - 85%	7664-38-2

SECTION 3 - HAZARDS IDENTIFICATION

Potential Health Effects

ACGIH - TLV: 1 mg/cu m TWA

Eye Contact EYE CONTACT MAY CAUSE CHEMICAL BURNS AND PERMANENT EYE DAMAGE

Skin Contact SKIN CONTACT MAY CAUSE CHEMICAL BURNS.

Ingestion MAY CAUSE BURNS TO MOUTH, THROAT & DIGESTIVE TRACT, VOMITING, AND ABDOMINAL DISCOMFORT .

Inhalation MIST MAY CAUSE SEVERE RESPIRATORY IRRITATION & BURNS.

Carcinogenicity: *NTP* NO *IARC* NO *OSHA* NO

SECTION 4 - FIRST AID PROCEDURES

Eye Contact: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

Skin Contact: IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION.

Inhalation: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

Ingestion: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point NOT APPLICABLE

Extinguishing Media WATER SPRAY TO KEEP FIRE EXPOSED CONTAINERS COOL. EXTINGUISH FIRE USING AGENT SUITABLE FOR SURROUNDING FIRE.

**Special Firefighting
Procedures/Precuations**

WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. STAY UPWIND AND KEEP OUT OF LOW AREAS.

SECTION 6 -ACCIDENTAL RELEASE MEASURES

For Spill: CONTAIN SPILL WITH DIKES AND TRANSFER TO APPROPRIATE CONTAINERS FOR RECLAMATION OR DISPOSAL. ABSORB REMAINING MATERIAL WITH AN INERT MATERIAL AND THEN PLACE IN CONTAINER FOR DISPOSAL. NEUTRALIZE AREA WITH A BASE SUCH AS SODA ASH OR LIME.

SECTION 7 - HANDLING AND STORAGE

Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area, away from heat and incompatible materials. Protect containers from physical damage.

WHEN UNLOADING BULK VEHICLES, PERSONNEL SHOULD WEAR CHEMICAL GOGGLES AND RUBBER OR NIOPRENE GLOVES. WORK WITH ADEQUATE VENTILATION. AVOID BREATHING VAPOR OR MIST.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection USE NIOSH/MSHA APPROVED RESPIRATORY PROTECTION EQUIPMENT.

Ventilation LOCAL AND MECHANICAL RECOMMENDED.

Protective Gloves CHEMICAL IMPERVIOUS GLOVES.

Eye/Face Protection CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD.

Other Protection CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC.

Work Practices USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F): 275 - 309 **Vapor Pressure (mmHg):** .0285 (@ 20 C)

Freezing Point (°F): 64 - 69 **Vapor Density (Air=1):** NOT ESTABLISHED

Solubility (H2O): COMPLETE **Specific Gravity (H2O=1):** 1.5 - 1.7

pH 1.5 **Evaporation Rate:** NOT DETERMINED

Appearance/Odor: CLEAR, COLORLESS, LIQUID WITH NO APPRECIABLE ODOR.

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: YES

Incompatible Materials CONTACT WITH ALKALINE MATERIALS, REACTIVE METALS, SULFIDES, AND SULFITES.

Decomposition Products TOXIC FUMES OF PHOSPHORUS OXIDES MAY BE FORMED.

Hazardous Polymerization: WILL NOT OCCUR.

SECTION 11 - TOXICITY INFORMATION

LD50 ORAL (rat) = 3500 - 4400 mg/kg LD50 DERMAL (rabbit) = 1260 - 3160 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

LC50/96 HR/MOSQUITO FISH/138 MG/L

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSE OF WASTE MATERIALS ACCORDING TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION

USA DOT Shipping Name: PHOSPHORIC ACID

Hazard Class: 8

UN/NA Number: UN1805

Packing Group: III

Subsidiary Hazard

Marine Pollutant: NO

SECTION 15 - REGULATORY INFORMATION

CERCLA RQ (lbs): 5000

SARA Title III Section 312:

Acute **Chronic** **Flammable** **Sudden Release of Pressure** **Reactive**

SARA Title III Section 313: Yes

SARA Extremely Hazardous Substance: No

HMIS HAZARD RATING

Health: 2 **Fire:** 0 **Reactivity:** 0

0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme

SECTION 16 - OTHER INFORMATION

EPA Pesticide Registration Number: NOT APPLICABLE

NSF Maximum Use Level for Potable Water (Standard 60): NOT APPLICABLE

TSCA (Toxic Substance Control Act), 40 CFR 710:

Sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Section 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

DISCLAIMER

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