

Material Safety Data Sheet

Provided by:
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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name ZINC ORTHOPHOSPHATE

Synonyms NONE

Chemical Name ZINC ORTHOPHOSPHATE

Date of Issue: 1/17/03

Emergency phone: 281-457-4888

Reviewed / Revision Date: 08/29/07

Chemtrec: 800-424-9300

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	PERCENT	CAS NO.
WATER	REMAINDER	7732-18-5
ZINC ORTHOPHOSPHATE	40%-45%	7779-90-0

SECTION 3 - HAZARDS IDENTIFICATION

Potential Health Effects

ACGIH - TLV: 1 mg/m3

Eye Contact CORROSIVE. MAY CAUSE EYE BURNS AND PERMANENT EYE DAMAGE.

Skin Contact CONTACT MAY CAUSE SEVERE SKIN IRRITATION AND POSSIBLE BURNS.

Ingestion CORROSIVE AND MAY CAUSE SEVERE AND PERMANENT DAMAGE TO MOUTH, THROAT AND STOMACH.

Inhalation VAPOR OR MIST MAY CAUSE IRRITATION TO NOSE, THROAT, AND UPPER RESPIRATORY TRACT. SEVER EXPOSURES CAN LEAD TO CHEMICAL PNEUMONITIS.

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: 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 (°F) NON-FLAMMABLE

Extinguishing Media DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY, OR FOAM.

**Special Firefighting
Procedures/Precuations**

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

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.

DO NOT STORE IN METAL CONTAINERS. USE HDPE, RUBBER LINED METAL CONTAINERS OR 316 STAINLESS STEEL CONTAINERS DESIGNED FOR PHOSPHORIC ACID.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection USE A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS

Ventilation LOCAL AND MECHANICAL RECOMMENDED.

Protective Gloves CHEMICAL RESISTANT.

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

Other Protection CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC.. EYEWASH AND SAFETY SHOWER NEARBY.

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):	> 212	Vapor Pressure (mmHg):	.02 - .05 (@ 20 C)
Freezing Point (°F):	> 18	Vapor Density (Air=1):	NO DATA
Solubility (H2O):	COMPLETE	Specific Gravity (H2O=1):	1.5 - 2.0
pH	1 - 5	Evaporation Rate:	NOT DETERMINED
Appearance/Odor:	CLEAR LIQUID WITH NO APPRECIABLE ODOR.		

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: YES

Incompatible Material: ALUMINUM, ZINC, MILD STEEL, STRONG CAUSTIC SOLUTIONS.

Hazardous Polymerization: WILL NOT OCCUR.

Decomposition Products: FROM FIRE: ZINC OR PHOSPHOROUS OXIDES.

SECTION 11 - TOXICITY INFORMATION

LD50 ORAL (rat) = > 100 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: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(CONTAINS PHOSPHORIC ACID)

Hazard Class: 8

UN/NA Number: 3264

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: No

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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