

MADISON CHEMICAL CO., INC.

3141 Clifty Drive, P. O. Box 1599, Madison, Indiana 47250-0599

MATERIAL SAFETY DATA SHEET

SECTION I - GENERAL INFORMATION

TRADE NAME: **C.I.P. - 5X**

EMERGENCY RESPONSE INFORMATION:

Company Offices:	812-273-6000	Weekdays
CHEMTREC:	800-424-9300	24 Hour Service
Steven T. Hale:	812-265-2703	Evenings and Weekends
David R. Goodman, Jr.:	812-273-6213	Evenings and Weekends

HMIS RATINGS: Health 2 Flammability 0 Reactivity 0 Personal Protection D

DATE PREPARED: 8-8-96 PREPARED BY: Marjorie E. Hare

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL IDENTITY

<u>(Common Name)</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>SEC. 313, SARA</u>
Phosphoric acid	7664-38-2	65 maximum	1 mg/M ³	1 mg/M ³	Yes

N.D. = Not Determined

SECTION III - PHYSICAL DATA

BOILING POINT (°F.):	220	SPECIFIC GRAVITY (WATER = 1):	1.46
VAPOR PRESSURE (mm Hg.):	N.D.	PERCENT VOLATILE BY VOLUME (%):	N.D.
VAPOR DENSITY (AIR=1):	N.D.	EVAPORATION RATE (<u>Water</u> =1):	1.0
SOLUBILITY IN WATER:	Complete	pH (100%):	0.9 - 1.1
APPEARANCE AND ODOR:	Clear, brown liquid with mild odor.	(1% by volume):	1.5 - 1.7

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): None prior to boiling (TOC, ASTM D1310) FLAMMABLE LIMITS - LEL: N.D. UEL: N.D.

EXTINGUISHING MEDIA: As appropriate for surrounding fire.

SPECIAL FIRE HAZARD AND FIRE FIGHTING PROCEDURES: Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

SECTION V - FIRST AID AND HEALTH HAZARD DATA

EMERGENCY FIRST AID:

EYES & SKIN: Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician. Remove contaminated clothing and shoes. Do not put contaminated clothing and shoes back on. Wash clothing and shoes thoroughly in soap and water; rinse repeatedly in clean water and dry before reuse.

INGESTION: Do not induce vomiting. Give water. Never give anything by mouth to an unconscious person. Call a physician.

SIGNS AND SYMPTOMS OF EXPOSURE: Contacted areas will exhibit irritation and can be burned if not flushed immediately.

PRIMARY ROUTE(S) OF ENTRY: Eyes, mucous membranes.

SECTION VI - REACTIVITY DATA

STABLE: Yes **UNSTABLE:** No **CONDITIONS TO AVOID:** No data found

INCOMPATIBILITY (Materials to Avoid): Alkaline materials

HAZARDOUS DECOMPOSITION PRODUCTS: Phosphorus oxides

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND DISPOSAL

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain liquid spills with sand and absorb on soda ash. Ventilate area. Dispose with solid wastes. See Waste Disposal Method. Flush remainder to drain with water.

WASTE DISPOSAL METHOD: Normal for acidic, phosphate containing wastes. May require pH adjustment for neutralization. Dispose in accordance with local, state, and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Normal for acids.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify Type): Use NIOSH/MSHA approved inorganic acid vapor respirator where airborne exposure is excessive.

VENTILATION: Use good ventilation. Local exhaust is recommended if TLV's are exceeded.

EYE AND FACE PROTECTION: Goggles and faceshield necessary

PROTECTIVE GLOVES: Nitrile rubber and neoprene

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Rubber apron and rubber boots required and other equipment as required to avoid contact. Eyewash facility and emergency shower should be in close proximity.

SECTION IX - PRECAUTIONARY LABELING

DANGER! Causes burns to skin, eyes, and alimentary canal.
Harmful if swallowed.
Contains phosphoric acid.

FOR INDUSTRIAL USE ONLY - KEEP OUT OF THE REACH OF CHILDREN