

1 – PRODUCT IDENTIFICATION

PRODUCT NAME:..... **4890**
PRODUCT NUMBER:..... 4890
OTHER MEANS OF IDENTIFICATION: Clear Liquid that is odorless
RECOMMENDED USE:Cooling water treatment. Not for use in drinking water.
RESTRICTIONS ON USE:.....Use only as directed.

COMPANY:..... CHEMTRON CORPORATION
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2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Clear, liquid that is odorless. Product can cause skin and eye irritation, and can be corrosive to some metals. May be irritating to respiratory system,. May react exothermically (get hot) with alkali.

CLASSIFICATION 29 CFR 1910.1200: Product is hazardous by OSHA criteria.

Corrosive to skincategory 1, subcategory 1C
Serious eye damagecategory 1
STOT-SE, respiratory system.....category 3



GHS SIGNAL WORD: **Danger**

GHS HAZARD STATEMENTS:.....H314: Causes severe skin burns and eye damage.
H335: May cause respiratory irritation
H290: May be corrosive to metals



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GHS PRECAUTIONARY STATEMENTS:.....P262: Do not get in eyes, on skin, or on clothing.
 P280: Wear protective gloves/protective clothing/eye protection/face protection; when conditions warrant use, add face shield, apron, and/or rubber boots.
 P260: Do not breathe dust/fume/gas/mist/vapors/spray.
 P264: Wash ... thoroughly after handling, wash gloves and contaminated surfaces.
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing for 15 min. call a doctor.
 P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately, call a doctor.
 P363: Wash contaminated clothing before reuse.
 P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
 P342+311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
 P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P311: Call a POISON CENTER/doctor/...
 Keep only in original container.
 Absorb spillage to prevent material damage.
 P405: Store locked up
 P501: Dispose of contents/container in accordance with local state and federal regulations.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER
Tetrapotassium Pyrophosphate	30-40	7320-34-5

The exact percent by weight of the ingredients in this formulation is proprietary.

4 – FIRST-AID MEASURES

BREATHING (INHALATION):..If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor.

SWALLOWING (INGESTION):..If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately, call a poison control center or doctor.

EYES:If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Immediately, call a doctor.

SKIN (DERMAL):If on skin (or hair): Immediately, take off all contaminated clothing. Rinse skin with water. Use safety shower if available. Immediately, call a doctor.

ACUTE SYMPTOMS:.....Irritation or burns to eyes, skin, or mucous membranes. Injury may result in permanent damage to eyesight or permanent scars on skin.

DELAYED EFFECTS:Skin or respiratory irritation is possible following exposures below threshold for acute effects.

IMMEDIATE OR SPECIAL TREATMENT: After contact with product, immediately flush eyes and/or skin with water for 15 minutes. If safety shower or eye wash is plumbed to cold water, it may be necessary to move victim to a locker room shower or elsewhere to obtain a



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lukewarm water source before the 15 minute flush is complete. After the 15 minute flush, seek medical treatment.

5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:.....Product is not flammable. Use media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES:Product is corrosive to eyes, skin, and may irritate respiratory system. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat. Thermal decomposition under fire conditions may produce corrosive aerosols, oxides of nitrogen, oxides of phosphorus, and oxides of carbon.

6 – ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:.....Contain and collect spills with commercial absorbents. Unused product or spill cleanup residues may be RCRA hazardous waste by the characteristic of corrosivity (D002). Consult local authorities for appropriate waste classification and waste disposal options in your location.

PERSONAL PRECAUTIONS:....Wear chemical splash goggles and protective industrial rubber gloves. When conditions warrant use, add face shield, apron, and/or rubber boots. If spill escapes to sanitary sewer, notify local public works authorities. If spill escapes to the environment, notify state and federal EPA and, if appropriate, the Coast Guard.

7 – HANDLING and STORAGE

STORAGE:.....Store product in closed container in well ventilated, secure area. Protect containers against physical damage. Protect label. Empty containers retain product residues and all label hazards are still present until container is thoroughly cleaned.

HANDLING:.....Open container slowly until pressure is relieved. Avoid spillage. Clean up small spills and drips promptly. Protect product from contamination. Avoid contact between this product and other chemicals, especially bases. Avoid contact with metals during handling. Do not transfer into metal containers. The recommended disposal for rinse waters from empty units is discharge to the treated system.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:Exposure limits for the formulated product are not established. Exposure limits for hazardous ingredients are also not established

PROTECTIVE CLOTHING:Wear chemical splash goggles and protective industrial rubber gloves. When conditions warrant use, add face shield, apron, and/or rubber boots.

ADDITIONAL MEASURES:.....General exhaust ventilation is adequate. Employ work practices and product transfer practices that avoid spills, drips, or contact with any incompatible material.

9 – PHYSICAL / CHEMICAL PROPERTIES

APPEARANCE:Clear liquid.

ODOR:Odorless.



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BOILING POINT: >212° F
VAPOR PRESSURE:.....Not known, similar to water
VAPOR DENSITY (AIR=1):Not known, similar to water
SPECIFIC GRAVITY:1.30-1.40
pH:10.5-11.0
SOLUBILITY IN WATER:Completely miscible in water.
FLAMMABILITY:Not flammable
EVAPORATION RATE:.....Not known, similar to water.
MELTING POINT:.....Not determined.

10 – STABILITY and REACTIVITY

STABILITY:.....Stable at ambient temperatures and pressures.
HAZARDOUS DECOMP.:May react with alkali (bases) releasing heat. Corrosive liquid may boil and splatter. May also react with oxidizers. Polymerization will not occur.
INCOMPATIBILITY:Alkali (bases) and oxidizers. Also, avoid contact with some metals, including aluminum, zinc, copper, brass, bronze, lead, and tin.
HAZARDOUS REACTIONS:Product may react exothermically (get hot) with alkali (bases). Product may also react with oxidizers or other materials that are incompatible with acidic aqueous solutions.

11 – TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE:

TOXICOLOGICAL CHARACTERISTICS:Product is corrosive to eyes, skin, mucous membranes, and other tissues. Contact will irritate or burn eyes and skin. Permanent damage to eyesight is possible. Permanent scars are possible. Respiratory irritation is possible following inhalation.

DELAYED EFFECTS:Skin or respiratory irritation is possible following exposures below the threshold required to cause acute effects.

IMMEDIATE EFFECTS:Irritation or burns to eyes, skin, or other tissues.

CHRONIC EFFECTS:Skin, eye, or respiratory irritation. Note above entry for delayed effects.

NUMERICAL MEASURES OF TOXICITY:No toxicology available on the formulated product. Toxicology data for product ingredient(s):

LISTED CARCINOGEN:Product does not contain 0.1% or greater of ingredients listed as a carcinogens by IARC, NTP, or OSHA.

INGREDIENTS	DATA
TKPP	LD50, Oral, Rat 1895 MG/KG

12 – ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND DISTRIBUTION: Significant contamination of small bodies of surface water or localized areas at the point of a spill may depress pH levels below tolerable levels for aquatic organisms.

PRODUCT	DATA
4890	Ceriodaphnia dubia LC50 48hr 1767.7



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PERSISTENCE AND DEGRADABILITY:Product ingredients expected to biodegrade slowly. Product will not be persistent in the environment.

BIOACCUMULATIVE POTENTIAL:Product ingredients do not bioaccumulate.

MOBILITY IN SOIL:.....Not known.

OTHER ADVERSE EFFECTS: ..Not known.

13 –DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:Product is consumed during recommended use. Flush container residues to the treated system. If product is not consumed in use, material is RCRA hazardous waste due to the corrosivity characteristic (D002). Dispose of contents or container in accordance with local, state, and federal regulations.

14 – TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:.....Corrosive Liquid, basic, organic, N.O.S. (tetrapotassium pyrophosphate)

HAZARD CLASS:8

UN/NA NUMBER:UN3266

PACKAGING GROUP :II



ENVIRONMENTAL HAZARDS:.....Product container meets or exceeds DOT requirements. Product is shipped to end user. No extraordinary measures are required for shipment in bulk tanks including totes. See 49 CFR 172.101 & 49 CFR172.102.

TRANSPORT IN BULK:Product container meets or exceeds DOT requirements. Product is shipped to end user. No extraordinary measures are required for shipment in bulk tanks including totes. See 49 CFR 172.101 & 49 CFR172.102.

SPECIAL PRECAUTIONS:If needed, see associated designations at 49 CFR172.102 for detailed descriptions of current container specifications.

15 - REGULATIONS

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

EPA SRA Title III Chemical Listings:

TSCA STATUS:All ingredients listed or exempt

SECTION 312:.....Acute hazard

SARA SECTION 313:.....Ingredients not listed

US EPA CERLA:Ingredients not listed



16 – OTHER INFORMATION

NFPA HAZARD RANKING

HEALTH	FIRE	REACTIVITY	SPECIAL
3	0	0	Corr

HMIS HAZARD RANKING

HEALTH	FIRE	REACTIVITY	PPE
3	0	0	n & p or X (defined below)

This data is offered in good faith and believed to be accurate, but it is for the users to satisfy themselves of the product suitability for their own purpose. There is no warranty expressed or implied. The recommended hygiene and safe handling procedures are believed to be generally applicable.