

## 1. IDENTIFICATION

*Trade Name:* 0250 Cooling Tower Formulation K-12

*Chemical Name & Synonyms:* Proprietary Cooling Water Treatment Blend

## 2. Hazards Identification

*Classification:* Corrosive, Irritant

*Signal Word:* **DANGER**

### Hazard Statements:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.



### GHS – Classification

Acute toxicity - Oral	Category 2
Skin corrosion/irritation	Category 1A
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (one exposure)	N/A

### Physical Hazards

Substance or mixture corrosive to metals

### Precautionary Statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash with plenty of water and soap thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

## 3. Composition / Information on Ingredients

Chemical Name	CAS No	Weight-%
Potassium Hydroxide	1310-58-3	10-15%
Phosphonic acid, reaction products with maleic anhydride, sodium salts	180513-31-9	4-7%

## 4. First Aid Measures

**General Advice:** P101: If medical advice/attention is needed; have product container or label at hand

**Eye Contact:** H318 Causes serious eye damage.

**Skin Contact:** H314 Causes severe skin burns and eye damage.

**Inhalation:** H333: May be harmful if inhaled.

**Ingestion:** H302 Harmful if swallowed.

**Note to Physicians:** Treat symptomatically.

**Self-protection of the First Aider:** None specific. General healthcare PPE is appropriate

## 5. Fire-fighting Measures

**Flammable Properties:** Non-flammable

**Explosive Properties:** N/A

**Suitable Extinguishing Media:** N/A

**Unsuitable Extinguishing Media:** N/A

**Specific Hazards Arising from the Chemical:** None known

### Protective Equipment and Precautions for Firefighters:

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode

## 6. Accidental Release Measures

**Personal Precautions:** Routine PPE for any spill, no unique requirement.

**Environmental Precautions:** If not diluted, this product may become a hazardous waste as designated by the EPA under authority of the Resource Conservation and Recovery Act (RCRA)

**Methods for Cleaning Up:** Product is water soluble and may be diluted and flushed as below described.

**Other Information:** This product is intended to be used in open recirculating cooling water treatment and discharged to sanitary sewer in its diluted state in tower bleedoff water. Concentrated product may be diluted to a similar working concentration and flushed to sewer or concentrated product soaked up with absorbent material and landfilled in accordance with local, state, and federal regulations.

## 7. Handling and Storage

**Advice on Safe Handling:** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Use only with adequate ventilation.

**Storage Conditions:** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

**Incompatible Materials:** None known

## 8. Exposure Controls / Personal Protection

Chemical Name	ACGIH TLV	OSHA PEL
Potassium Hydroxide	2mg/m <sup>3</sup> ceiling	2 mg/m <sup>3</sup> ceiling

**Exposure Guidelines** N/A

**Engineering Controls:** Ensure adequate ventilation, especially in confined areas

**Personal protective equipment (PPE)** Wear suitable industrial protective clothing

**Eye/Face Protection:** Industrial Safety Glasses

**Body Protection:** Industrial protective clothing, rubber gloves when appropriate

**General Hygiene Considerations:** Do not eat, drink, or smoke while handling this product.

## 9. Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

**Appearance:** Clear amber liquid with mild organic odor

**pH:** 13.5  
**Specific Gravity:** 1.20 (10.0 lb/Gal)  
**Molecular Weight:** Mixture  
**Water Solubility:** Completely soluble  
**Melt/FreezePoint:** 0°C / 32 °F  
**Boiling Point:** 107 °C / 225 °F  
**Flammability:** N/A  
**Flash Point:** N/A  
**Vapor density:** N/A

### 10. Stability and Reactivity

**Stability:** Stable under normal conditions of use and storage  
**Conditions to Avoid:** None known  
**Incompatible Materials:** Strong acids without dilution or agitation, metal alloys, chlorinated hydrocarbons.  
**Hazardous Decomposition Products:** None known  
**Possibility of Hazardous Reactions:** None known

### 11. Toxicological Information

Chemical	Oral LD50	Dermal LD50
Potassium Hydroxide (as concentrate)	214mg/kg (rat)	No Data
<b>Chronic Toxicity:</b>	No Data	
<b>Carcinogenicity:</b>	Not classified as a carcinogen by NTP, IARC, or OSHA	
<b>Target Organ Effects:</b>	N/A	

### 12. Ecological Information

**Ecotoxicity:**  
This material is alkaline and may raise the pH of surface waters with low buffering capacity.  
This material may exhibit moderate toxicity to aquatic organisms.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Potassium Hydroxide (as concentrate)	ErC50: 61ppm/96 hr	80 ppm/96 hr	60 ppm/48 hr

**Persistence/Degradability:** This material will slowly neutralize in contact with minerals in the aquifer  
**Bioaccumulation:** No Data  
**Mobility:** No Data

### 13. Disposal Considerations

**Waste from Residues/Unused Products:**

This product is intended to be used in open recirculating cooling water treatment and discharged to sanitary sewer in its diluted state in tower bleedoff water. Concentrated product may be diluted to a similar working concentration and flushed to sewer or concentrated product soaked up with absorbent material and landfilled in accordance with local, state, and federal regulations.

P501 Dispose of contents/container in accordance with local/state/federal regulations

**Contaminated Packaging:** Do not reuse container for potable / food contact. Wash and rinse thoroughly before reuse / recycling

#### 14. Transport information (USDOT):

**Proper shipping Name:** Corrosive Liquid, Organic, N.O.S (Contains Potassium Hydroxide)  
**Hazard Class:** Corrosive (8)  
**UN/ID No** UN3265  
**Packing Group** None  
**Reportable Quantity (RQ)** 3,750 lbs (Calculated)  
**Description:** N/A



#### 15. Regulatory Information

**TSCA** (Toxic Substance Control Act): Components of this product are listed on the TSCA Inventory.

**DSL:** This product, or its components, are listed on or are exempt from the Canadian Domestic Substances List (DSL).

**CERCLA:** (Comprehensive Emergency Response Compensation, and Liability Act)(40 CFR 302.4): Potassium Hydroxide is listed. If a reportable quantity is spilled, notify local and state emergency response commissions, also National Emergency Response Center 800-424-8802.

**RCRA:** (Resource Conservation/Recovery Act): No

#### SARA 302 Components SARA 302 Components

The following components are subject to reporting levels established by SARA Title III, Section 302: None.

**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Acute Health Hazard.

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### National Fire Protection Association (NFPA) Ratings:

**NSF Certification:** N/A



#### 16. Other Information

This Safety Data Sheet compiled from information provided by the raw chemical product manufacturers.



530 South Fifth Street, Quincy, IL 62301-4896  
V: 217-223-2017 F: 217-223-7734 8am-5pm US CST  
After Hours: CHEMTREC 1-800-424-9300

## **SAFETY DATA SHEET** (GHS Format)

Also available for download at:

<http://www.WalterLouis.com/MSDS/>

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