


SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier**
 Trade name : CWT-700 COOLING TOWER LAYUP TREATMENT
 Product form : Mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
 Use of the substance/mixture : Cooling Tower Corrosion Inhibitor
- 1.3. Details of the supplier of the safety data sheet**
 Kriss Premium Products, Inc.
 3400 East 42nd Street
 Minneapolis, MN 55406
- 1.4. Emergency telephone number**
 Emergency number : INFORMATION: 612-722-8485
 CHEMTREC: (800) 424-9300

SECTION 2: Hazards identification

- 2.1. Label elements**
- GHS-US labeling**
 Hazard pictograms (GHS-US) : 
 Signal word (GHS-US) : **Warning**
 Hazard statements (GHS-US) : H303 – May be harmful if swallowed.
 H316 – Causes mild skin irritation.
 H320 – Causes eye irritation.
- Precautionary statements (GHS-US) : P102 – Keep out of reach of children.
 P233 – Keep container tightly closed.
 P262 – Do not get in eyes, on skin or on clothing.
 P264 - Wash skin and clothing thoroughly after handling
 P281 – Use personal protective equipment as required.
- 2.3. Other hazards** : No additional information available.
2.4. Unknown acute toxicity (GHS-US) : No data available.

SECTION 3: Composition/information on ingredients

- 3.1. Substance** : Not applicable
3.2. Mixture

Hazardous Component	Product identifier	%
Oil Soluble Calcium Sulfate	(CAS No) None Listed	0 - 20
Non hazardous ingredients		80 - 100

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of § 1910.1200.

SECTION 4: First aid measures

- 4.1. Description of first aid measures**
- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : IF INHALED: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician if any difficulties persist.
- First-aid measures after skin contact : IF ON SKIN: Wash affected areas thoroughly with soap and water for at least 15 minutes. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention if any irritation persists

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- First-aid measures after eye contact : IF IN EYES: Flush eyes with a large amount of water for 15 minutes. Seek medical attention immediately if any irritation persists. After first aid, get appropriate in-plant, paramedic or community medical support.
- First-aid measures after ingestion : IF SWALLOWED: If person can swallow, give 2 glasses of water to drink. DO NOT INDUCE VOMITING! After first aid, seek appropriate in-plant, paramedic, or community medical support. Never give anything by mouth to an unconscious person.
- Other : After first aid, get appropriate in-plant, paramedic or community medical support.

SECTION 5: Firefighting measures

- 5.1. **Flammability Classification** : Non Flammable
- 5.2. **Suitable extinguishing media** : Water for, Alcohol foam, Carbon Dioxide, Dry Chemical
- 5.3. **Unusual Fire or Explosion Hazards** : Non known other than material can splatter above 100 deg C/212 deg F.
- 5.4. **Hazardous Combustion Products** : Unknown but carbon monoxide may be released on burning.
- 5.5. **Firefighting instructions** : Do not release runoff from fire control methods to sewers or waterways.
- 5.6. **Firefighting Equipment** : Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

SECTION 6: Accidental release measures

- 6.1. **Personal precautions** : Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.
- 6.2. **Small Spills** : Absorb spill with paper towel or similar absorbent; or flush to sewer or ground with large amounts of water.
- 6.3. **Large Spills/containment** : For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways. Absorb spill with vermiculite, oil dry or similar non-reactant absorbent. Solidified product represents no environmental hazard.
- 6.4. **Cleanup** : Accumulate the absorbed materials and dispose of according to federal, state and local regulations.
- 6.4. **Environmental precautions** : Follow applicable OSHA/CERCLA or any other regulations (29 CFR 1910.120) as well as any state or local regulations that may apply.

SECTION 7: Handling and storage

- 7.1. **Precautions for safe handling** : Use the recommended safety controls and personal protective equipment as outlined. Fully review all data before handling of the material itself. Avoid contact with skin or eyes. Avoid breathing dust or mist. Keep from contact with clothing and other combustible materials. Observe good personal hygiene and housekeeping practices. Wash thoroughly after handling.
- 7.2. **Conditions for safe storage** : Do not store in direct sunlight. Store in a tightly closed container. Store in a cool dry, well-ventilated area. Do not store this material near any strong acids, bases, oxidizers, flammables or any other type of reactive material. Do not expose the material to temperature extremes. Do not store product above 77 deg F.
- 7.3. **Regulatory requirements** : Store materials according to all local, state and federal guidelines that are established for non-regulated chemical products.

SECTION 8: Exposure controls/personal protection

8.1. Components with limit values that require monitoring at the workplace:

Hazardous Component	CAS #	OSHA PEL/TWA STEL	ACGIH TLV/TWA STEL	OTHER
Oil Soluble Calcium Sulfate	None listed	None Est.	None Est.	

8.2. Exposure controls

- Ventilation : Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.
- Respiratory Protection : Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH –approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessel, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient sanitary storage areas.

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Personal protective equipment (PPE) : Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses. At a minimum wear safety glasses with side shields as well as chemically protective gloves and aprons to prevent prolonged or repeated skin contact.



Safety stations : Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated equipment : Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments : Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Work/Hygienic Practices : Consistent use of afore-mentioned personal protective equipment is essential in preventing injuries or irritation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid emulsion
Color : Whitish to Light Amber Color
Odor : Characteristic
pH : > 8
Relative evaporation rate (butyl acetate=1) : 1.0
Melting point : N/A
Freezing point : Approx 32 deg F
Boiling point : 100 °C (212 °F) +/-
Flash point : N/A
Self ignition temperature : N/A
Decomposition temperature : No data available
Flammability (solid, gas) : Non flammable
Vapor pressure : Same as water
Relative vapor density at 20 °C : Same as water
Relative density : 1.0 +/-
Solubility : Soluble in water.
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
% Volatile : > 80%

SECTION 10: Stability and reactivity

10.1. Stability : This product is stable at room temperature in closed containers under normal storage and handling conditions. However, avoid temperature extremes.

10.2. Conditions to avoid : Excessive temperature, contact with any type of reactive chemicals.

10.3. Hazardous polymerization : Hazardous polymerization will not occur.

10.4. Chemical incompatibilities : Avoid contact with strong acids, strong alkalis, oxidizers or any other type of reactive material.

10.6. Hazardous decomposition products : There are no known hazardous decomposition products for this material unless the material is burned in which case undetermined evolution of toxic gases may occur.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Hazardous Components	CAS No.	LD50 of Ingredient	LD50 Dermal of Ingredient
Oil Soluble Calcium Sulfate	None listed	No data available at publication	No data available at publication

Routes of Entry : Absorbed through skin, Dermal Contact, Eye Contact, Inhalation.

Eye effects : Irritation to eyes and possible burning if materials are not immediately rinsed from the eye.

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Acute Inhalation Effects	: Might produce irritation to respiratory system.
Skin Effects	: Irritation to skin.
Acute Oral/Ingestion Effects	: Not tested for this blend. Harmful if swallowed.
Chronic Effects on Humans	: No specific studies have been conducted for this specific blend.
Other Toxic Effects on Humans	: No specific studies have been conducted for this specific blend.
Special Remarks-Human Chronic Effects	: No other information for chronic effects on humans.
Carcinogenicity	: IARC, NTP, and OSHA do not list this product or its components as a carcinogen.
Mutagenicity	: No mutagenic effects are known to be applicable for the formulation components of this product.
Teratogenicity	: No studies have been conducted for this specific blend.
Target Organ Statement	: No studies have been conducted for this specific blend.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous Components	CAS No.	LC50	EC50
Oil Soluble Calcium Sulfate	None listed	No data available at publication	No data available at publication
Special Remarks-Products of biodegradation	The component(s) of this product are not subject to rapid biodegradation.		

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal Regulatory Requirements	: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal, state and local regulations.
Container Cleaning and Disposal	: Triple rinse the empty containers with water before disposal to be reconditioned or land fill or garbage.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number	: Not dangerous goods in sense of transport regulations.
14.2. UN proper shipping name	: Not applicable.
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	: No additional information available
Transport by sea	: No additional information available
Air transport	: No additional information available

SECTION 15: Regulatory information

15.1. EPA regulations

RCRA Hazardous Waste Number	: Product blend is not listed ((40 CFR 261.33)
RCRA Hazardous Waste Classification (40 CFR 261.)	: Product blend is not classified.
CERCLA Hazardous Substance (40 CFR 302.4)	: Product blend is unlisted specific per RCRA, Sec. 3001 ; CWA, Sec. 311 (b) (4) ; CWA. Sec. 307 (a).
CAA, Sec. 112 CERCLA Reportable Quantity (RQ)	: Not Listed.
SARA 313 Codes	: Not Listed.
SARA Toxic Chemical (40 CFR 372.65)	: Not Listed.
SARA 302/304 Extremely Hazardous Substance (40 CFR 355)	: Not Listed.
SARA 313 SARA EHS (Extremely Hazardous Substance) (40 CFR 355)	: Not Listed.
Threshold Planning Quantity (TPQ)	: Not Listed.
OSHA Regulations:	: Not Listed.
Air Contaminant (20 CFR 1910.1000, Table Z-1, Z-1-A)	: Not Listed.
OSHA Specifically Regulated Substance (29 CFR 1910.)	: Not Listed.

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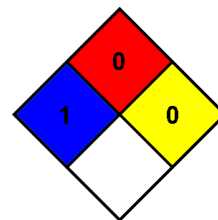
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- 15.2. State Regulations** : As a product blend, the materials are generally not listed. Check with your local state regulatory board for more detailed information regarding the specific components of this product.
- 15.3. National Regulations** : All components of this product are listed in the U.S. Environmental Protection Agencies, Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

SECTION 16: Other information

- Indication of changes : Revision 1.0 – 01 June 2015 - New SDS Created.
- Other information : Author. SRO.
- NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
- NFPA fire hazard : 0 - Materials that will not burn.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

- Health : 1
- Flammability : 0
- Physical : 0
- Personal Protection : C

We believe that the information contained on this Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily adequate in every circumstance. These suggestions should not be confused with or followed in violation of applicable laws, regulations, rules or insurance requirements. The seller makes no warranty expressed or implied concerning the accuracy or any results obtained from the use of any information and no warranty expressed or implied concerning the use of the products. The buyer assumes all risks of the use and/or handling.