



		1. Identification		
Product identifier	ST-5400			
Other means of identification	None.			
Recommended use	Cooling and Boiler De	escalant		
Recommended restrictions	None known.			
Manufacturer/Importer/Supplier	r/Distributor informatio	n		
Company name	Clear Water Technolo	gies, LLC		
Address	2220 Otay Lakes Roa	d		
	Suite 502-107			
	San Diego, CA 91913 United States			
Telephone	619-861-0909			
Website	www.ClearWaterTech	com		
E-mail	david@ClearWaterTe			
Emergency phone number	800-255-3924	ChemTel		
	2. Haz	zard(s) identifica	ition	
Physical hazards	Not classified.			
Health hazards	Acute toxicity, oral		Category 4	
	Skin corrosion/irritatio	n	Category 2	
	Serious eye damage/		Category 2A	
Signal word	Warning			
Hazard statement	0	Causes skin irritation	n. Causes serious eye irritation.	
Precautionary statement				
Prevention	Wash thoroughly after	r handling. Do not ea	t, drink or smoke when using thi	s product. Wear eve
i iovonuon	protection/face protec			
	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.			
Response	plenty of water. If in e lenses, if present and advice/attention. If eye	yes: Rinse cautiously easy to do. Continue e irritation persists: G	with water for several minutes. rinsing. If skin irritation occurs:	Remove contact Get medical
Response Storage	plenty of water. If in e lenses, if present and advice/attention. If eye	yes: Rinse cautiously easy to do. Continue e irritation persists: G fore reuse.	with water for several minutes. rinsing. If skin irritation occurs:	Remove contact Get medical
	plenty of water. If in e lenses, if present and advice/attention. If eye clothing and wash bef Store away from incor	yes: Rinse cautiously easy to do. Continue e irritation persists: G fore reuse. mpatible materials.	with water for several minutes. rinsing. If skin irritation occurs:	Remove contact Get medical are off contaminated
Storage Disposal Hazard(s) not otherwise	plenty of water. If in e lenses, if present and advice/attention. If eye clothing and wash bef Store away from incor	yes: Rinse cautiously easy to do. Continue e irritation persists: G fore reuse. mpatible materials.	with water for several minutes. e rinsing. If skin irritation occurs: et medical advice/attention. Tak	Remove contact Get medical are off contaminated
Storage Disposal Hazard(s) not otherwise classified (HNOC)	plenty of water. If in e lenses, if present and advice/attention. If eye clothing and wash bef Store away from incor Dispose of contents/c	yes: Rinse cautiously easy to do. Continue e irritation persists: G fore reuse. mpatible materials.	with water for several minutes. e rinsing. If skin irritation occurs: et medical advice/attention. Tak	Remove contact Get medical are off contaminated
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Storage Disposal Hazard(s) not otherwise classified (HNOC) Supplemental information	plenty of water. If in e lenses, if present and advice/attention. If eye clothing and wash bef Store away from incor Dispose of contents/c None known.	yes: Rinse cautiously easy to do. Continue e irritation persists: G fore reuse. mpatible materials. ontainer in accordan	with water for several minutes. e rinsing. If skin irritation occurs: iet medical advice/attention. Tak ce with local/regional/national/in	Remove contact Get medical are off contaminated
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*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

	4. First-aid measures
Inhalation	Move to fresh air.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
	5. Fire-fighting measures
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
	6. Accidental release measures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for	This product is miscible in water. Should not be released into the environment.
containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
	7. Handling and storage
Precautions for safe handling	Do not taste or swallow. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
	8. Exposure controls/personal protection

Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
General hygiene considerations	Wash hands after handling and before eating. Keep away from food and drink.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Clear Liquid.
Color	Colorless to Pale Yellow
Odor	Characteristic
Odor threshold	Not available.
рН	< 1.0
Melting point/freezing point	< 40 °F (< 4.4 °C) estimated
Initial boiling point and boiling range	> 212 °F (> 100 °C) estimated
Flash point	> 200 °F (> 93.3 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	17.0 mm Hg
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Complete
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	10.00 lb/gal
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.
Specific gravity	1.20
VOC	0.5 %

10. Stability and reactivity	
Reactivity	Reacts violently with strong alkaline substances. This product may react with reducing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not mix with other chemicals.
Incompatible materials	Bases. Reducing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

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Inhalation	No adverse effects due to inhalation are expected.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Information on toxicological effe	ects
Acute toxicity	Harmful if swallowed.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	1
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Not listed. OSHA Specifically Regulate Not regulated.	Evaluation of Carcinogenicity d Substances (29 CFR 1910.1001-1050) ogram (NTP) Report on Carcinogens
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
	12. Ecological information
Ecotoxicity	Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

	13. Disposal considerations
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance wit local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
	14. Transport information
DOT	-
Not regulated as dangerous ge	oods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated as dangerous goods.
	15. Regulatory information
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Not regulated.	
Superfund Amendments and Re Hazard categories	authorization Act of 1986 (SARA) Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazard Not listed.	lous substance
SARA 311/312 Hazardous chemical	No
SARA 313 (TRI reporting) Not regulated.	
Other federal regulations	
Clean Air Act (CAA) Section Not regulated.	112 Hazardous Air Pollutants (HAPs) List
Clean Air Act (CAA) Section Not regulated.	112(r) Accidental Release Prevention (40 CFR 68.130)
Safe Drinking Water Act (SDWA)	Not regulated.
US state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region

United States & Puerto Rico

Inventory name

Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision	
Issue date	03-08-2017
Version #	01
Disclaimer	QualiChem, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.