

Product Safety Data Sheet

Section 1: Identification

Product Name: CT-416

Function: Cooling system deposit control agent

Manufacturer: Chemco Products, Inc., 1349 Grand Oaks Drive, Howell, MI 48843

Phone Number: 517-546-7800

Transport Emergency Phone Number: Chemtrec, 800-424-9300

SDS Issue Date: August 7, 2014

Revision Number:

Section 2: Hazard Identification



Hazard Classifications: Corrosive

Signal Word: DANGER!

- CAUSES SERIOUS EYE DAMAGE
- CAUSES SKIN IRRITATION

Precautionary Statements:

- Contains sodium hydroxide. Contact with eyes or skin may cause severe irritation or burns.
- Wear appropriate eye and skin protection when handling product.

Non-Classified Hazards: None

Section 3: Hazardous Ingredients

Ingredient Name	CAS Number	net % by weight
Sodium hydroxide	1310-73-2	1.3

Section 4: First Aid Procedures

- Skin Contact: Prolonged contact with skin may produce severe irritation or burns. Remove contaminated clothing and flush contact area with water for 15 minutes. Seek medical attention if irritation persists.
- Eye Contact: Contact with eyes may result in severe, permanent damage or blindness. Immediately flush eyes with water or ophthalmic rinse solution; continue flushing with water for 15 minutes to remove any residual material. Seek immediate medical attention.
- Inhalation: Inhalation of product mists may cause respiratory irritation or burns. Move victim to fresh air. If breathing is difficult, provide oxygen. If irritation persists, seek medical attention.
- Ingestion: Ingestion may result in severe burns of the throat and digestive system. If victim is conscious, provide water or milk to dilute ingested material. Do not induce vomiting unless instructed by a physician or Poison Control Center. Get immediate medical attention.

Section 5: Fire-Fighting Measures

- Special Hazards: Thermal decomposition may produce hazardous CO, SO_x, and NO_x fumes. Contact with metallic materials may produce flammable hydrogen gas. Wear self-contained breathing apparatus.
- Extinguishing Media: For small fires, use A-B-C fire extinguisher. Large fires may be extinguished with any media suitable for the surrounding fire.

Section 6: Accidental Release Measures

- First Responders should wear all recommended personal protective equipment outlined in Section 8. For large spill cleanup, personnel should wear a chemical-resistant splash suit or coveralls.
- Prevent spills from contaminating natural waterways or municipal sewer systems. Use chemical-resistant spill control socks/booms to minimize spread of spill.
- Reclaim as much spilled material as possible and return to original container. Use citric acid solution to neutralize spill residue, then flush with water to wastewater treatment system.

Section 7: Storage and Handling

- Store at room temperature away from alkaline-reactive materials such as acids and metallic substances. Keep container closed when not in use.
- Use containment devices to prevent uncontrolled spills.
- Locate emergency eye wash/safety shower near area of use.
- > Do not eat, drink, or smoke while handling product; wash thoroughly with soap after handling.

Section 8: Personal Protection and Exposure Controls

Protective Equipment Requirements:

- 1. Face shield or safety goggles
- 2. Chemical-resistant gloves
- 3. Chemical-resistant apron
- 4. Chemical-resistant boots

Airborne Exposure Limits

Hazardous Ingredient

Sodium hydroxide

Exposure Limit 2 mg/m³ TWA

Section 9: Physical and Chemical Properties (n.a. = not available)

- Appearance: Clear yellow liquid
- Odor: Mild, sweet
- pH, neat: 13.4
- Specific Gravity: 1.05
- Water solubility: Complete
- Freezing/Boiling points, degrees F: < 32 / > 212
- Viscosity: < 100 cps
- Flash point, degrees F: non-flammable
- Upper/Lower explosive limits: non-flammable
- Auto-ignition temperature: non-flammable
- Decomposition temperature: n.a.
- Vapor pressure/density: n.a.
- Evaporation rate: n.a.
- Octanol/Water partition coefficient: n.a.

Section 10: Stability and Reactivity

Chemical Stability: This product is stable under normal storage and use conditions. Keep container closed and prevent exposure to temperature extremes.

Reactivity: This product is alkaline and may react violently in contact with strong acid materials. Contact with aluminum, tin, or zinc may produce flammable hydrogen gas.

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Section 11: Toxicological Information

Likely route(s) of exposure: eye/skin contact (corrosive)

*Toxicity values are estimated using aggregate ingredient toxicities.

- > Acute oral toxicity: LD_{50} , rat = > 10,000 mg/kg
- > Acute dermal toxicity: LD_{50} , rabbit = > 10,000 mg/kg

Carcinogenicity/Teratogenicity: No ingredients listed by IARC, NTP, or OSHA.

Section 12: Ecological Information

a. Aquatic Toxicity Bluegill sunfish, 96 hr LC_{50} , = > 100 mg/l (estimated) Daphnia magna, 48 hr EC_{50} , = > 100 mg/l (estimated)

Aquatic toxicity will result from pH increase, due to the alkalinity of this product. Prevent spills from entering natural waterways and sewer systems.

b. Biodegradability

No specific biodegradability data have been determined for this product.

c. Environmental Fate

This product would be gradually neutralized by exposure to alkalinity present in natural waterways and soil. The organic components are not anticipated to resist natural degradation or bioaccumulate.

Section 13: Disposal Considerations

Personnel responding to spills of this product should wear splash shield, safety glasses, chemical-resistant coveralls, gloves, and boots.

Unneutralized product is a D002 (Corrosive) hazardous waste. Small amounts of waste product may be safely neutralized with dilute acid, and then flushed with water to wastewater treatment system. Larger quantities should be used up, if possible, or stored in sealed plastic containers for proper disposal at a hazardous waste facility.

Empty containers should be triple-rinsed with water prior to recycling or disposal.

Section 14: Transport Information

FOR TRANSPORT EMERGENCIES, CONTACT CHEMTREC, 1-800-424-9300

Proper shipping description: UN3266, Corrosive liquid, basic, inorganic, n.o.s., 8, PG III (contains sodium hydroxide)

DOT Hazard Class(es): Class 8, Corrosive

CERCLA Reportable Spill Quantity (RQ) = > 50,000 lbs./5,700 gallons

Section 15: Regulatory Information

Regulation	Applicable	<u>Notes</u>
OSHA Hazardous Material	Yes	Corrosive
CERCLA Reportable Spill Quantity (RQ)	Yes	> 50,000 lbs.
EPCRA Section 302 Extremely Hazardous Substance	No	
EPCRA Section 311 Hazardous Material	Yes	Acute hazard
EPCRA Section 312 Hazardous Chemical Inventory	Yes	TPQ = 10,000 lbs.
EPCRA Section 313 Toxic Chemical	No	

Section 16: Additional Information

HMIS Hazard Rating		0 = minimal 1 = slight
Health	2	2 = moderate
Florencebility	•	z – moderate
Flammability	0	3 = serious
Reactivity	0	4 = severe
Personal Protection	С	Code C = safety goggles, chemical-resistant gloves and apron