

SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: Chemical Treatment CL206
Product Use: Cooling Water and Reverse Osmosis Microbiocide
Supplier's Name: ChemTreat, Inc.
Emergency Telephone Number: (800) 424-9300 (Toll Free)
(703) 527-3887
Address (Corporate Headquarters): 5640 COX ROAD
Glen Allen, VA 23060
Telephone Number for Information: (800) 648-4579
Date of MSDS: December 13, 2013

Section 2. Hazard(s) Identification



Signal Word: DANGER

Hazard Statement(s): Causes serious eye damage.
Causes skin irritation.
Harmful if inhaled.
Harmful if swallowed.
Toxic to aquatic life.

Precautionary Statement(s): Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands thoroughly after handling.
Do not breathe dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Do not eat, drink, or smoke when using this product.
Avoid release into the environment.

Section 3. Composition/Hazardous Ingredients

| Component | CAS Registry # | Wt. % |
|-----------------------------------|----------------|-------|
| 2-2-Dibromo-3-nitrilopropionamide | 10222-01-2 | 20 |

Section 4. First Aid Measures

| | |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation: | Remove to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell. |
| Eyes: | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. |
| Skin: | Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs, seek medical advice/attention. |
| Ingestion: | DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON CENTER or doctor/physician. |
| Notes to Physician: | Probable mucosal damage may contraindicate the use of gastric lavage. |
| Additional First Aid Remarks: | Have the product container, label or MSDS with you when calling a poison control center or doctor, or when going for treatment. |

Section 5. Fire Fighting Measures

| | |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammability of the Product: | Not flammable. |
| Suitable Extinguishing Media: | Use extinguishing media suitable to surrounding fire. |
| Specific Hazards Arising from the Chemical: | Product may emit toxic gases or fumes under fire conditions. |
| Protective Equipment: | If product is involved in a fire, wear full protective clothing including a positive-pressure, NIOSH approved, self-contained breathing apparatus. |

Section 6. Accidental Release Measures

- Personal Precautions:** Use appropriate Personal Protective Equipment (PPE).
- Environmental Precautions:** This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, ponds, streams, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.
- Methods for Cleaning up:** Contain and recover liquid when possible. Flush spill area with water spray.
- Other Statements:** None.

Section 7. Handling and Storage

- Handling:** Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.
- Storage:** Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only. Do not store above 95°F.

Section 8. Exposure Controls/Personal Protection

Exposure Limits

| Component | Source | Exposure Limits |
|-----------------------------------|--------|-----------------|
| 2-2-Dibromo-3-nitrilopropionamide | | N/E |

Carcinogenicity Category

| Component | Source | Code | Brief Description |
|-----------------------------------|--------|------|-------------------|
| 2-2-Dibromo-3-nitrilopropionamide | | | N/E |

Engineering Controls: Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source.

Personal Protection

- Eyes:** Wear chemical splash goggles or safety glasses with full-face shield. Maintain eyewash fountain in work area.
- Skin:** Maintain quick-drench facilities in work area. Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and coveralls to prevent skin contact.
- Respiratory:** If misting occurs, use NIOSH approved organic vapor/acid gas dual cartridge respirator with a dust/mist prefilter in accordance with 29 CFR 1910.134.

Section 9. Physical and Chemical Properties

| | |
|---------------------------------------|--------------------------|
| Physical State and Appearance: | Liquid, Colorless, Clear |
| Specific Gravity: | 1.225 @ 20°C |
| pH: | 2.2 @ 20°C, 100.0% |
| Freezing Point: | <-11°F |
| Flash Point: | 212°F |
| Odor: | Strong |
| Melting Point: | N/D |
| Boiling Point: | >158°F |
| Solubility in Water: | Appreciable |
| Evaporation Rate: | N/D |
| Vapor Density: | N/D |
| Molecular Weight: | N/D |
| Viscosity: | N/A |
| Flammable Limits: | N/A |
| Autoignition Temperature: | N/A |
| Density: | 10.20 lb/ga |
| Vapor Pressure: | N/D |
| % VOC: | 0 |

Section 10. Stability and Reactivity

| | |
|-------------------------------------------------|--------------------------------------------------------------------------------------|
| Chemical Stability: | Stable at normal temperatures and pressures. |
| Incompatibility with Various Substances: | Strong oxidizers, Strong bases, Aluminum/aluminum alloys |
| Hazardous Decomposition Products: | Dibromoacetone, Cyanogen bromide, Carbon dioxide, Bromine, Toxic vapors/fumes/gases. |
| Possibility of Hazardous Reactions: | None known. |

Section 11. Toxicological Information

| Chemical Name | Exposure | Type of Effect | Concentration | Species |
|--------------------------|------------|----------------|---------------|---------|
| Chemical Treatment CL206 | Oral | LD50 | 510 mg/kg | Rat |
| | Inhalation | LC50 | 1.25 mg/l | Rat |
| | Dermal | LD50 | >2000 mg/kg | Rabbit |

Comments: None.

Section 12. Ecological Information

| Species | Duration | Type of Effect | Test Results |
|--------------------|----------|----------------|--------------|
| Daphnia magna | 48h | LC50 | 6.2 mg/l |
| Bluegill Sunfish | 96h | LC50 | 6.5 mg/l |
| Rainbow Trout | 96h | LC50 | 5 mg/l |
| Fathead Minnow | 96h | LC50 | 6.8 mg/l |
| Ceriodaphnia dubia | 48h | LC50 | 5.733 mg/l |
| Sheepshead Minnow | 96h | LC50 | 7 mg/l |

Comments: Based on active ingredient

Section 13. Disposal Considerations

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by procedures approved by state and local authorities.

Section 14. Transport Information

DOT

| | |
|------------------------------|-------------------------------------------|
| Proper Shipping Name: | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
| Technical Name: | (2,2-DIBROMO-3-NITRILOPROPIONAMIDE) |
| Hazard Class: | Corrosive |
| UN/NA#: | UN3265 |
| Packing Group: | PGIII |

IMDG

| | |
|------------------------------|-------------------------------------------|
| Proper Shipping Name: | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
| Technical Name: | (2,2-DIBROMO-3-NITRILOPROPIONAMIDE) |
| Hazard Class: | Corrosive |
| UN/NA#: | UN3265 |
| Packing Group: | PGIII |

TDG

| | |
|------------------------------|-------------------------------------------|
| Proper Shipping Name: | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
| Technical Name: | (2,2-DIBROMO-3-NITRILOPROPIONAMIDE) |
| Hazard Class: | Corrosive |
| UN/NA#: | UN3265 |
| Packing Group: | PGIII |

ICAO

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical Name: (2,2-DIBROMO-3-NITRILOPROPIONAMIDE)
Hazard Class: Corrosive
UN/NA#: UN3265
Packing Group: PGIII

Section 15. Regulatory Information

Inventory Status

United States (TSCA): All ingredients listed.
Canada (DSL/NDSL): All ingredients listed.

Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard: No
Reactive Hazard: No
Release of Pressure: No
Acute Health Hazard: Yes
Chronic Health Hazard: No

Other Sections

| Component | Section 313 Toxic Chemical | Section 302 EHS TPQ | CERCLA RQ |
|---------------------------------|-------------------------------|------------------------|-----------|
| 2-2-Dibromo-3-nitripropionamide | Yes | N/A | N/A |

Comments: None.

State Regulations

California Proposition 65: None known.

Special Regulations

| Component | States |
|-----------------------------------|--------|
| 2-2-Dibromo-3-nitrilopropionamide | None |

International Regulations

Canada

WHMIS Classification: N/A

Controlled Product Regulations (CPR): N/A

Section 16. Other Information

HMIS Hazard Rating

Health: 3
Flammability: 1
Physical Hazard: 1
PPE: X

Notes: The PPE rating depends on circumstances of use. See Section 8 for recommended PPE.
The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha-numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end-user must determine if the code is appropriate for their use.

NSF: Certified to NSF/ANSI Standard 60
This product ships as NSF from:
Ashland, VA
Eldridge, IA
Nederland, TX

FDA/USDA/GRAS: N/A

KOSHER: This product is certified by the Orthodox Union as kosher pareve.

FIFRA: This product is an EPA registered biocide. 464-426-15300

Other: PMRA biocide registration NO. 23358

Abbreviations

| Abbreviation | Definition |
|--------------|-----------------------------------------------------------|
| < | Less Than |
| > | Greater Than |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| EHS | Environmental Health and Safety Dept |
| N/A | Not Applicable |
| N/D | Not Determined |
| N/E | Not Established |
| OSHA | Occupational Health and Safety Dept |
| PEL | Personal Exposure Limit |
| STEL | Short Term Exposure Limit |
| TLV | Threshold Limit Value |
| TWA | Time Weight Average |
| UNK | Unknown |

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Disclaimer

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