

# Safety Data Sheet

**FORMULA 1595**

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## 1. IDENTIFICATION

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**Product Name:** FORMULA 1595 **Revised:** 5/29/15  
**Chemical Name:** BCDMH  
**Description:** White tablets with faint halogen (chlorine) odor  
**Recommended Use:** Water Treatment Biocide  
**Restrictions on Use:** For industrial use only. Not for use in treating drinking water

### COMPANY IDENTIFICATION

B & L CONTROL SERVICE, INC.  
1448 SARATOGA ROAD  
BALLSTON SPA, NY 12020

**PHONE NUMBER:** (518) 273-0500

### EMERGENCY PHONE NUMBERS

CHEMTREC (800) 424-9300  
Outside USA: CHEMTREC COLLECT (703) 527-3887

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## 2. HAZARD(S) IDENTIFICATION

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### GHS Classification:

Oxidizing liquids; Oxidizing solids - Category 3  
Serious eye damage/irritation - Category 1  
Skin corrosion/irritation - Category 1C  
Acute toxicity, oral - Category 4  
Sensitization, skin - Category 1  
Hazardous to the aquatic environment, long-term hazard - Category 1

**Signal Word:** Danger

**Symbol(s):**



### Hazard Statements:

May intensify fire; oxidizer  
Causes severe skin burns and eye damage.  
Harmful if swallowed  
May cause an allergic skin reaction  
Very toxic to aquatic life with long lasting effects

### Precautionary Statements:

#### Prevention

Keep away from sparks and open flames. No smoking. Keep/Store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles Do not breathe dusts or mists. Avoid breathing dusts or mists. Do not get in eyes, on skin, or on clothing. Wash hands, forearms, gloves and contaminated surfaces thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/eye protection/face protection.

#### Response

In case of fire: Use Water spray or fog, foam, dry chemical or carbon dioxide to extinguish.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CONTROL CENTER or doctor for treatment advice.

IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. Specific treatment (see First Aid on SDS or on this label).

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CONTROL CENTER or doctor for treatment advice if you feel unwell.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CONTROL CENTER or doctor for treatment advice if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse.

Collect spillage.

**Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal**

Dispose of contents/container in accordance with local, regional, national and international regulations.

**Hazards Not Otherwise Classified:** None Known.

**Percentages of Components with Unknown Acute Toxicity:** None Known.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Component	CAS-No.	Weight percent
Bromochloro-5,5-dimethylimidazolidine-2,4-dione	32718-18-6	96%

\* Exposure limit and regulatory information in Sections 8 & 15

\*\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

**4. FIRST AID MEASURES**

**Eye Contact:** Immediately flush eyes with a directed stream of cool, clear water for at least 30 minutes. Forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Do not allow individual to rub their eyes. Get medical attention urgently, preferably from an ophthalmologist. Do not transport the victim until the recommended flushing period is completed, unless a portable emergency eye wash bottle is immediately available.

**Skin Contact:** Immediately wash skin with soap and plenty of water while removing contaminated clothing, for at least 15 minutes. If irritation persists, get medical attention. Launder contaminated clothing before reuse.

**Inhalation:** Remove victim to fresh air. If individual experiences nausea, headache, dizziness, has difficulty in breathing or is cyanotic, seek medical attention. If not breathing, give artificial respiration via a suitable mechanical device such as a bag and mask. Do not use mouth-to-mouth resuscitation.

**Ingestion:** Do not induce vomiting. Rinse mouth with copious quantities of water first and get immediate medical attention. Drink several glasses of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep airways clear.

**Note to Physician:** There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

**Most Important Symptoms/Effects:**

**Eye Contact:** May cause severe irritation or burns. Prolonged contact may cause irreversible damage and/or blindness.

**Skin Contact:** Prolonged contact may cause severe irritation, rash or burns. Severity is generally determined by concentration of solution and duration of contact.

**Inhalation:** Dusts, vapors, or mists may irritate respiratory passages.

**Ingestion:** May be toxic by ingestion. Do not take internally. May cause irritation and possibly burns of the mouth, throat, esophagus, and stomach. May cause nausea, vomiting, abdominal pain and collapse. Large amounts can result in acute toxic effects which may be fatal.

**Indication of Immediate Medical Attention and Special Treatment, if Necessary:**

Other than acute, none known. See section 11 for toxicological information.

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## 5. FIRE FIGHTING MEASURES

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**Suitable (and Unsuitable) Extinguishing Media:** Water spray or fog, foam, dry chemical or carbon dioxide

**Specific Hazards Arising from the Chemical:** Product is corrosive to eyes, skin, and respiratory system. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat. Solid product will melt and combustion may occur when exposed to fire. Thermal decomposition may release oxides of carbon and nitrogen and Hydrogen bromide, bromine, hydrogen chloride, chlorine.

**Special Protective Equipment and Precautions for Fire-Fighters:** Wear self-contained breathing apparatus and full turn-out gear. Approach fire from upwind direction. If possible, move containers away from fire. Cool fire exposed containers with water spray. If containers rupture or leak, product may evolve irritating or toxic gas under extreme heat. Contain runoff.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Spill Containment and Clean-up Instructions:**

Wear suitable protective equipment found in section 8. Collect spilled material into suitable containers and dispose of in accordance with all local, state and federal requirements. The area may then be flushed with copious quantities of water. Floor may be slippery; use care to avoid falling. This product is toxic to aquatic life. Avoid release of this product into the environment to prevent contamination of soil, sewers, natural waterways and/or groundwater. See Section 12 for Ecological Information.

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## 7. HANDLING AND STORAGE

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**Handling and Storage:**

Store in a cool, dry, well ventilated area, between 10°C and 49°C. Keep containers tightly closed when not in use and follow all recommended safety precautions when handling the material. Keep out of sun and away from heat or open flame. Keep away from incompatible materials. See Section 10 for incompatible materials.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

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**Engineering Controls:** General ventilation satisfactory. Mechanical may be required to keep concentration below maximum airborne exposure limits in confined areas.

### PERSONAL PROTECTION EQUIPMENT

**Respiratory:** Not normally required. If dusty atmosphere, use a NIOSH approved dust respirator.

**Eyes and Face:** Chemical resistant goggles or face shield.

**Hands and Skin:** Chemical resistant rubber, neoprene latex or PVC

**Other Protective Equipment:** Eyewash station in area of use. Wear long sleeve shirt, long pants, and boots.

### EXPOSURE GUIDELINES

**Exposure Limits:**

COMPONENT	TLV
N.A.	

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance and Odor:</b>	White tablets with faint halogen (chlorine) odor	<b>Vapor Pressure:</b>	N.A.
<b>Odor Threshold:</b>	N.D.	<b>Vapor Density:</b>	N.A.
<b>pH (1% solution):</b>	3.0 - 4.0	<b>Specific Gravity(@23°C):</b>	1.87
<b>Freeze Point:</b>	< 313°C (156°F)	<b>Solubility in Water:</b>	0.15%
<b>Boiling Point:</b>	N.A.	<b>Partition Coefficient:</b>	N.D. (n-octanol/water)
<b>Flash Point:</b>	> 142°C (288°F)	<b>Auto-Ignition Temperature:</b>	N.D.
<b>Evaporation Rate:</b>	N.A.	<b>Decomposition Temperature:</b>	< 165°C (329°F)
<b>Flammability (solid, gas):</b>	No	<b>Viscosity:</b>	N.D.
<b>Flammable Limits in Air:</b>	<b>LFL</b> – N.A. <b>UFL</b> – N.A.		

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## 10. STABILITY AND REACTIVITY

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**Reactivity:** Not normally reactive at normal temperatures and pressure.

**Chemical Stability:** Stable under normal conditions

**Possibility of Hazardous Reactions:** Will not occur under normal conditions.

**Conditions to Avoid:** Avoid water, excessive heat, sparks or open flames.

**Incompatible Materials:** Concentrated acids, alkalies or oxidizing agents.

**Hazardous Decomposition Products:** Thermal decomposition may release oxides of carbon and nitrogen and Hydrogen bromide, bromine, hydrogen chloride, chlorine.

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## 11. TOXICOLOGICAL INFORMATION

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**Ingestion Testing:** Rat, LD50: 485 mg/kg

**Skin Testing:** Rabbit, LD50: > 2,000 mg/kg

**Inhalation Testing:** None established for this product.

Eye Irritation:

Rabbit: Result Corrosive: Method: OECD Test Guideline 404: Exposure time: 4 hours

### CHRONIC TOXICITY DATA

**Sensitization Testing:** Buehler Test guinea pig: Result: Sensitizing

**Other Testing:** Information given is based on data on the components and the toxicology of similar products.

No data is available on the product itself.

**Routes of Exposure:** Eyes, Ingestion, Inhalation, Skin.

**Eye Contact:** May cause severe irritation or burns. Prolonged contact may cause irreversible damage and/or blindness.

**Skin Contact:** Prolonged contact may cause severe irritation, rash or burns. Severity is generally determined by concentration of solution and duration of contact.

**Inhalation:** Dusts, vapors, or mists may irritate respiratory passages.

**Ingestion:** May be toxic by ingestion. Do not take internally. May cause irritation and possibly burns of the mouth, throat, esophagus, and stomach. May cause nausea, vomiting, abdominal pain and collapse. Large amounts can result in acute toxic effects which may be fatal.

**Medical Conditions Aggravated by Exposure:** None known.

**Chronic Effects from Repeated Overexposure:** Other than short term effects, none established.

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## 12. ECOLOGICAL INFORMATION

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### Aquatic Toxicity Data:

Invertebrate: Daphnia magna, EC50/48hr: 0.87 mg/l

Fish: Rainbow trout, LC50/96hr: 0.65 mg/l

Algal: Green algae, ErC50/72hr: 2.00 mg/l

Microorganisms: Activated sludge, EC50/3hr: 20.00 mg/l

**Product Fate Data:** None established for this product.

**Biodegradation Data:** None established for this product.

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## 13. DISPOSAL CONSIDERATIONS

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**Waste Disposal:** Dispose of in accordance with local, regional, national and international regulations.

Contact the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Triple rinse container (or equivalent) promptly after emptying and offer for reconditioning if appropriate. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal.

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## 14. TRANSPORT INFORMATION

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### US DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION

**UN/NA ID Number:** UN3085

**Proper Shipping Name:** OXIDIZING SOLID, CORROSIVE, N.O.S. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)

**Hazard Class:** 5.1, (8)

**Packing Group:** PGIII

### VESSEL TRANSPORT (IMO/IMDG)

**UN/NA ID Number:** UN3085

**Proper Shipping Name:** OXIDIZING SOLID, CORROSIVE, N.O.S. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)

**Hazard Class:** 5.1, (8)

**Packing Group:** PGIII

**Marine Pollutant:** Yes

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## 15. REGULATORY INFORMATION

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### US FEDERAL REGULATIONS

**TSCA:** All ingredients listed or exempt from listing.

**CERCLA and/or SARA RQ:** No ingredients listed in this section.

**SARA Section 302 Hazard Class:** No ingredients listed in this section.

### SARA Section 311/312 Chemicals:

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

**SARA Section 313 Chemicals:** No ingredients listed in this section.

**STATE REGULATIONS**

**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)**

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

**Federal Insecticide, Fungicide and Rodenticide Act**

EPA Registration Number: 6836-317

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER

HARMFUL OR FATAL IF SWALLOWED.

HIGHLY CORROSIVE.

Causes eye and skin damage.

Irritating to nose and throat.

This pesticide is toxic to fish and aquatic organisms.

**16. OTHER INFORMATION**

**HAZARD RATING SUMMARY**

<b>Hazard Rating System:</b>	<b>NFPA</b>	<b>CODE TRANSLATION</b>
<b>Health:</b>	3	0 = Minimal Hazard
<b>Flammability:</b>	1	1 = Slight Hazard
<b>Reactivity:</b>	0	2 = Moderate Hazard
<b>Special:</b>	OX	3 = Severe Hazard
		4 = Extreme Hazard

**Other Precautions:** This product has been designed for use as a biocide in specific types of cooling water circuits and should be used only in accordance with the instructions provided by the technical representative servicing the facility. It may not be used for the treatment of potable water. Note: It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**SDS REVISION SUMMARY**

<b>Revised Date</b>	<b>Revision Notes</b>
5/29/15	GHS Version 1.0: Supersedes: 5/22/15

**ABBREVIATION CODE SUMMARY**

- N.A. – Not Applicable
- N/A – Not Available
- N.D. – Not Determined
- N.E. – None Established

*Disclaimer: The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.*