

# SAFETY DATA SHEET

## Section 1. Chemical Product and Company Identification

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<b>Product Name:</b>	ChemTreat BL100
<b>Product Use:</b>	Boiler Water Treatment
<b>Supplier's Name:</b>	ChemTreat, Inc.
<b>Emergency Telephone Number:</b>	(800)424-9300 (Toll Free)
<b>Address (Corporate Headquarters):</b>	5640 Cox Road Glen Allen, VA 23060
<b>Telephone Number for Information:</b>	(800)648-4579
<b>Date of SDS:</b>	March 14, 2016
<b>Revision Date:</b>	March 14, 2016
<b>Revision Number:</b>	16031401AN

## Section 2. Hazard(s) Identification

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<b>Signal Word:</b>	<b>DANGER</b>
<b>GHS Classification(s):</b>	Corrosive to Metals – Category 1 Acute Toxicity Inhalation – Category 4 Skin corrosion/irritation – Category 2 Eye damage/irritation – Category 1 Carcinogenicity – Category 2
<b>Hazard Statement(s):</b>	H290 May be corrosive to metals. H332 Harmful if inhaled. H315 Causes skin irritation. H318 Causes serious eye damage. H351 Suspected of causing cancer.
<b>Precautionary Statement(s):</b>	This product contains a chelating agent and ingestion of large amounts may cause hypo-calcemic tetany with spontaneous recovery.
<b>Prevention:</b>	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P234 Keep only in original container. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection.



**Response:** P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.  
P305 + P351 + P388 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P332 + P313 If skin irritation develops or persists, get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P390 Absorb spillage to prevent material damage.

**Storage:** P405 Store locked up.  
P406 Store in a corrosive resistant container with a resistant inner liner.

**Disposal:** P501 Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.

**System of Classification Used:** Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Hazards Not Otherwise Classified:** None.

### Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt. %
Ethylene diamine tetraacetic acid, tetrasodium salt	64-02-8	30 - 60
Sodium hydroxide	1310-73-2	0.5 - 1.9
Nitilotriacetic acid, trisodium salt	5064-31-3	0.1 - 1

**Comments** If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.

## **Section 4. First Aid Measures**

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<b>Inhalation:</b>	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.
<b>Eyes:</b>	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.
<b>Skin:</b>	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs, seek medical advice/attention.
<b>Ingestion:</b>	Rinse mouth. Call a poison center or doctor/physician if you feel unwell.
<b>Most Important Symptoms:</b>	N/D
<b>Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary:</b>	N/A

## **Section 5. Fire Fighting Measures**

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<b>Flammability of the Product:</b>	Not flammable.
<b>Suitable Extinguishing Media:</b>	Use extinguishing media suitable to surrounding fire.
<b>Specific Hazards Arising from the Chemical:</b>	Use water spray to keep containers cool.
<b>Protective Equipment:</b>	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

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<b>Personal Precautions:</b>	Use appropriate Personal Protective Equipment (PPE).
<b>Environmental Precautions:</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.
<b>Methods for Cleaning up:</b>	Contain and recover liquid when possible. Flush spill area with water spray.
<b>Other Statements:</b>	If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802.

## Section 7. Handling and Storage

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<b>Handling:</b>	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.
<b>Storage:</b>	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 or handle in aluminum, zinc, copper, or their alloys. Store above Freeze Point.

## Section 8. Exposure Controls/Personal Protection

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### Exposure Limits

Component	Source	Exposure Limits
Ethylene diamine tetraacetic acid, tetrasodium salt	N/E	N/E
Sodium hydroxide	ACGIH TLV	2 mg/m <sup>3</sup> Ceiling
	OSHA PEL	2 mg/m <sup>3</sup> TWA
Nitrilotriacetic acid, trisodium salt	N/E	N/E

<b>Engineering Controls:</b>	Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source.
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## Personal Protection

<b>Eyes:</b>	Wear chemical splash goggles or safety glasses with full-face shield. Maintain eyewash fountain in work area.
<b>Skin:</b>	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.
<b>Respiratory:</b>	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

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<b>Physical State and Appearance:</b>	Liquid, Light Straw, Clear
<b>Specific Gravity:</b>	1.295 @ 20°C
<b>pH:</b>	13.7 @ 20°C, 100.0%
<b>Freezing Point:</b>	<-11°F
<b>Flash Point:</b>	N/D
<b>Odor:</b>	Mild
<b>Melting Point:</b>	N/A
<b>Initial Boiling Point and Boiling Range:</b>	220°F
<b>Solubility in Water:</b>	Complete
<b>Evaporation Rate:</b>	<1
<b>Vapor Density:</b>	As Water
<b>Molecular Weight:</b>	N/D
<b>Viscosity:</b>	N/A
<b>Flammability (solid, gas):</b>	N/D
<b>Flammable Limits:</b>	N/A
<b>Autoignition Temperature:</b>	N/A
<b>Density:</b>	10.80 LB/GA
<b>Vapor Pressure:</b>	<17.5
<b>% VOC:</b>	0
<b>Odor Threshold</b>	N/D
<b>n-octanol Partition Coefficient</b>	N/D
<b>Decomposition Temperature</b>	N/D

## Section 10. Stability and Reactivity

<b>Chemical Stability:</b>	Stable at normal temperatures and pressures.
<b>Incompatibility with Various Substances:</b>	Strong oxidizers, Acids, Aluminum/aluminum alloys, Zinc.
<b>Hazardous Decomposition Products:</b>	Oxides of nitrogen, Ammonia.
<b>Possibility of Hazardous Reactions:</b>	None known.
<b>Reactivity:</b>	N/D
<b>Conditions To Avoid:</b>	N/D

## Section 11. Toxicological Information

### Acute Toxicity

Chemical Name	Exposure	Type of Effect	Concentration	Species
Ethylene diamine tetraacetic acid, tetrasodium salt	Oral	LD50	3030 MG/KG	Rat
	Dermal	LD50	>5000 MG/KG	Rabbit
Sodium hydroxide	Oral	LD50	300 MG/KG	Rat
	Dermal	LD50	1350 MG/KG	Rabbit

### Carcinogenicity Category

Component	Source	Code	Brief Description
Ethylene diamine tetraacetic acid, tetrasodium salt	N/E	N/E	N/E
Sodium hydroxide	N/E	N/E	N/E
Nitrilotriacetic acid, trisodium salt	IARC	IARC-2B	Possibly carcinogenic to humans
	MAK	MAK-3A	Possibly carcinogenic-not conclusive because of lack of data
	NTP	NTP-R	Reasonably anticipated to be a human carcinogen

**Likely Routes of Exposure:** N/D

## Symptoms

Inhalation: N/D

Eye Contact: N/D

Skin Contact: N/D

Ingestion: N/D

Skin Corrosion/Irritation: N/D

Serious Eye Damage/Eye Irritation: N/D

Sensitization: N/D

Germ Cell Mutagenicity: N/D

Reproductive/Developmental Toxicity: N/D

## Specific Target Organ Toxicity

Single Exposure: N/D

Repeated Exposure: N/D

Aspiration Hazard: N/D

Comments: None.

## Section 12. Ecological Information

### Ecotoxicity

Species	Duration	Type of Effect	Test Results
Sheepshead Minnow	96h	LC50	>1000 mg/l
Mysid Shrimp	48h	LC50	>1000 mg/l
Ceriodaphnia dubia	48h	LC50	683 mg/l
Fathead Minnow	96h	LC50	707 mg/l

Persistence and Biodegradability: N/D

Bioaccumulative Potential: N/D

Mobility In Soil: N/D



Other Adverse Effects: N/D

Comments: None.

### Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.  
EPA corrosivity characteristic hazardous waste D002 when disposed of in the original product form.

### Section 14. Transport Information

Controlling Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Packing Group:
DOT	N/A	COMPOUND, INDUSTRIAL WATER TREATMENT, LIQUID	N/A	N/A	N/A
IMDG	UN3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	(ETHYLENE DIAMINE TETRAACETIC ACID, TETRASODIUM SALT AND SODIUM HYDROXIDE)	8	PGIII
TDG	UN3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	(ETHYLENE DIAMINE TETRAACETIC ACID, TETRASODIUM SALT AND SODIUM HYDROXIDE)	8	PGIII
ICAO	UN3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	(ETHYLENE DIAMINE TETRAACETIC ACID, TETRASODIUM SALT AND SODIUM HYDROXIDE)	8	PGIII

Note: N/A

### Section 15. Regulatory Information

#### Inventory Status

United States (TSCA):  
Canada (DSL/NDSL):

All ingredients listed.  
All ingredients listed.





**Federal Regulations**

**SARA Title III Rules**

**Sections 311/312 Hazard Classes**

<b>Fire Hazard:</b>	No
<b>Reactive Hazard:</b>	No
<b>Release of Pressure:</b>	No
<b>Acute Health Hazard:</b>	Yes
<b>Chronic Health Hazard:</b>	Yes

**Other Sections**

Component	Section 313 Toxic Chemical	Section 302 EHS TPQ	CERCLA RQ
Ethylene diamine tetraacetic acid, tetrasodium salt	N/A	N/A	N/A
Sodium hydroxide	N/A	N/A	1000
Nitrilotriacetic acid, trisodium salt	N/A	N/A	N/A

**Comments:** None.

**State Regulations**

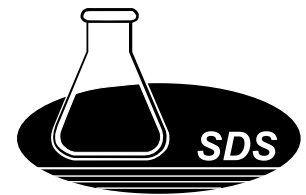
**California Proposition 65:**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm: Nitrilotriacetate acid, trisodium salt CAS # 5064-31-3.

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm: Formaldehyde (CAS# 50-00-0).

**Special Regulations**

Component	States
Ethylene diamine tetraacetic acid, tetrasodium salt	None.
Sodium hydroxide	MA, MN, NY, PA, WA
Nitrilotriacetic acid, trisodium salt	MA



## International Regulations

### Canada

**WHMIS Classification:** D2B (Toxic Material)  
E (Corrosive Material)

**Controlled Product Regulations (CPR):** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## Compliance Information

**NSF:** N/A

**Food Regulations:** N/A

**KOSHER:** This product has not been evaluated for Kosher approval.

**FIFRA:** N/A

**Other:** None

**Comments:** None.

## Section 16. Other Information

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### HMIS Hazard Rating

<b>Health:</b>	3
<b>Flammability:</b>	0
<b>Physical Hazard:</b>	0
<b>PPE:</b>	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.



## 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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