



# SAFETY DATA SHEET

## Section 1. Chemical Product and Company Identification

Product Name: ChemTreat RL100

Product Use: Reverse Osmosis Treatment & Membrane

Supplier's Name: Cleaner Product ChemTreat, Inc.

Emergency Telephone Number: (800)424–9300 (Toll Free)

Address (Corporate Headquarters): 5640 Cox Road

Telephone Number for Information: Glen Allen, VA 23060 (800)648–4579

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# Section 2. Hazard(s) Identification

Signal Word: WARNING

**GHS Classification(s):** Eye damage/irritation – Category 2b

Acute Toxicity Dermal – Category 4 Acute Toxicity Inhalation – Category 4 Acute Toxicity Oral – Category 4

**Hazard Statement(s):** H320 Causes eye irritation.

H312 Harmful in contact with skin.

H332 Harmful if inhaled. H302 Harmful if swallowed.

**Precautionary Statement(s):** This product contains a chelating agent and ingestion of large

amounts may cause hypo-calcemic tetany with spontaneous recovery.

**Prevention:** P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product. P271 Use only outdoors or in a well–ventilated area. P280 Wear protective gloves/protective clothing/eye

protection/face protection.





Response: P301 + P312 IF SWALLOWED: Call a POISON

CENTER or doctor/physician if you feel unwell P302 + P352 IF ON SKIN: Wash with plenty of soap

and water.

P304 + P340 IF INHALED: Remove person to fresh

air and keep comfortable for breathing P305 + P351 + P338 IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER or doctor/physician if

you feel unwell. P330 Rinse mouth.

P337 + P313 If eye irritation persists, get medical

advice/attention.

P362 + P364 Take off contaminated clothing and wash

it before reuse.

Storage: None.

**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
Nitrilotriacetic 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

**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. If eye

irritation persists, get medical advice/attention.

**Skin:** Wash with plenty of soap and water. Call a poison center or

doctor/physician if you feel unwell.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON

CENTER or doctor/physician.

Most Important Symptoms: N/D

Indication of Immediate Medical Attention and Special Treatment Needed, If

Necessary:

N/A

# 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:

Use water spray to keep containers cool.

**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:** Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains, and sewers.

**Methods for Cleaning up:**Contain and recover liquid when possible. Flush spill area with

water spray.

Other Statements: If RQ (Reportable Quantity) is exceeded, report to National

Spill Response Office at 1–800–424–8802.

## 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 or handle in aluminum, zinc, copper, or their alloys.

Store above Freeze Point.

## Section 8. Exposure Controls/Personal Protection

#### **Exposure Limits**

Component	Source	Exposure Limits
Ethylene diamine tetraacetic acid, tetrasodium salt	N/E	N/E
Sodium hydroxide	ACGIH TLV	2 mg/m³ Ceiling
	OSHA PEL	2 mg/m³ TWA
Nitrilotriacetic acid, trisodium salt	N/E	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, Light Straw, Clear

Specific Gravity: 1.295 @ 20°C

pH: 13.7 @ 20°C, 100.0%

Freezing Point: <-11°F
Flash Point: N/D
Odor: Mild
Melting Point: N/A
Initial Boiling Point and Boiling Range: 220°F
Solubility in Water: Complete

Evaporation Rate: <1

Vapor Density:As WaterMolecular Weight:N/DViscosity:N/DFlammability (solid, gas):N/DFlammable Limits:N/AAutoignition Temperature:N/A

Density: 10.80 LB/GA

Vapor Pressure: <17.5

% VOC: 0
Odor Threshold N/D
n-octanol Partition Coefficient N/D
Decomposition Temperature N/D





## Section 10. Stability and Reactivity

**Chemical Stability:** Stable at normal temperatures and pressures.

**Incompatibility with Various** 

**Substances:** 

Strong oxidizers, Acids, Aluminum/aluminum alloys, Zinc.

**Hazardous Decomposition** 

**Products:** 

Oxides of nitrogen, Ammonia.

**Possibility of Hazardous** 

Reactions:

None known.

Reactivity: N/D

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

**Note:** When shipped by ground in the U.S., by exception 49 CFR

173.154 (d) (1) not subject to transport as a hazardous material when in authorized packaging that will not react dangerously or be degraded by the corrosive material.

# 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** 

Fire Hazard:

Reactive Hazard:

Release of Pressure:

Acute Health Hazard:

Chronic Health Hazard:

No

#### **Other Sections**

	Section 313	Section 302 EHS	
Component	Toxic Chemical	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.

#### **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:** Certified to NSF/ANSI Standard 60

Maximum use rate for potable water - 20 mg/L

This product ships as NSF from:

Ashland, VA Nederland, TX

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

### **HMIS Hazard Rating**

Health: 2
Flammability: 0
Physical Hazard: 0
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.

#### **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





Abbreviation	Definition
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

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## Disclaimer

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