



# MATERIAL SAFETY DATA SHEET

## Section 1. Chemical Product and Company Identification

Product Name: Product Use: Supplier's Name: Emergency Telephone Number:

Address (Corporate Headquarters):

**Telephone Number for Information: Date of MSDS:** 

ChemTreat RL1500 Reverse Osmosis Membrane Cleaner ChemTreat, Inc. (800) 424–9300 (Toll Free) (703) 527–3887 5640 COX ROAD Glen Allen, VA 23060 (800) 648–4579 February 22, 2013

### Section 2. Hazard(s) Identification

Signal Word:	DANGER!
Hazard Statement(s):	Causes severe skin burns and eye damage. Causes serious eye damage. Harmful in contact with skin. Harmful if inhaled. 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. Wear protective gloves/clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area.

### Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
Ethylene diamine tetraacetic acid, tetrasodium salt	64-02-8	10 - 30
Sodium hydroxide	1310-73-2	0.1 – 1





# Section 4. First Aid Measures

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
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:	Immediately remove/take off all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before re–use. Immediately call a poison center or doctor/physician.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON CENTER or doctor/physician.
Notes to Physician:	N/A
Additional First Aid Remarks:	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).
<b>Environmental Precautions:</b>	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.

# Section 8. Exposure Controls/Personal Protection

### **Exposure Limits**

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

### **Carcinogenicity Category**

Component		Source	Code	Brief Description
Ethylene diamine tetraacetic acid, tetrasodium salt				N/E
Sodium hydroxide				N/E
		ly with adequate ventilation. The use of local ventilation is needed 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.			
<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

**Physical State and Appearance:** Liquid, Light Straw, Hazy **Specific Gravity:** 1.145 @ 20°C pH: 13.1 @ 20°C, 100.0% **Freezing Point:** 25°F Flash Point: N/D **Odor:** Moderate **Melting Point:** N/A **Boiling Point:** N/D Solubility in Water: Complete **Evaporation Rate:** N/D Vapor Density: N/D Molecular Weight: N/D <100 Viscosity: Flammable Limits: N/A **Autoignition Temperature:** N/A **Density:** 9.55 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, Acids, Aluminum/aluminum alloys, Zinc		
Hazardous Decomposition Products:	Oxides of nitrogen		
Possibility of Hazardous Reactions:	None known.		

# Section 11. Toxicological Information

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

**Comments:** 

None.





# Section 12. Ecological Information

Species	Duration	Type of Effect	Test Results
Ceriodaphnia dubia	48h	LC50	854 mg/l
Fathead Minnow	96h	LC50	660 mg/l

**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

#### DOT

Techi Hazai UN/N	er Shipping Name: nical Name: rd Class: IA#: ing Group:	SODIUM HYDROXIDE SOLUTION N/A Corrosive UN1824 PGII
IMDG		
Tecĥi Haza UN/N	er Shipping Name: nical Name: rd Class: IA#: ing Group:	SODIUM HYDROXIDE SOLUTION N/A Corrosive UN1824 PGII
ICAO		
Techi Hazai UN/N	er Shipping Name: nical Name: rd Class: IA#: ing Group:	SODIUM HYDROXIDE SOLUTION N/A Corrosive UN1824 PGII





#### TDG

Proper Shipping Name: Technical Name:	SODIUM HYDROXIDE SOLUTION N/A
Hazard Class:	Corrosive
UN/NA#:	UN1824
Packing Group:	PGII

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

#### **Other Sections**

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

Comments: None.

#### **State Regulations**

California Proposition 65:

None known.





### **Special Regulations**

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

#### **International Regulations**

#### Canada

WHMIS Classification:	D2B (Toxic Material) E (Corrosive Material)
<b>Controlled Product Regulations</b> (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.

# Section 16. Other Information

### **HMIS Hazard Rating**

Health: Flammability: Physical Hazard: PPE:	2 0 0 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 Vernon, CA
FDA/USDA/GRAS:	N/A
KOSHER:	This product is certified by the Orthodox Union as kosher pareve. Only when prepared by the following ChemTreat facilities: Ashland, VA; Eldridge, IA; Nederland, TX; Vernon, CA.





#### FIFRA:

N/A

#### Other:

None

#### 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

#### **Prepared by: Regulatory Affairs Department**

## Disclaimer

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