



# MATERIAL SAFETY DATA SHEET

### Section 1. Chemical Product and Company Identification

**Product Name:** ChemTreat RL124

**Product Use:** Reverse Osmosis Treatment

**Supplier's Name:** ChemTreat, Inc.

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

Address (Corporate Headquarters): (703) 527–3887 5640 COX ROAD

Glen Allen, VA 23060

**Telephone Number for Information:** (800) 648–4579 **Date of MSDS:** February 7, 2013

# Section 2. Hazard(s) Identification

Signal Word: WARNING!

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

Causes skin irritation. Harmful if inhaled.

May be harmful if swallowed.

**Precautionary Statement(s):** 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.%
Sodium bisulfite	7631–90–5	15 – 40





### 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. 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 if you feel unwell.

**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).

**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 below 30°F.

# Section 8. Exposure Controls/Personal Protection

### **Exposure Limits**

Component	Source	Exposure Limits
Sodium bisulfite	ACGIH TLV	5 mg/m³ TWA

### **Carcinogenicity Category**

Component	Source	Code	Brief Description
Sodium bisulfite			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, Yellow, Clear

**Specific Gravity:** 1.235 @ 20°C **pH:** 3.9 @ 20°C, 100.0%

Freezing Point: 30°F
Flash Point: N/D
Odor: Strong
Melting Point: N/A
Boiling Point: 212°F
Solubility in Water: Complete

Evaporation Rate:

Vapor Density:

N/D

Molecular Weight:

Viscosity:

Flammable Limits:

Autoignition Temperature:

N/A

Density:

Support

N/D

N/D

N/D

N/O

N/A

N/A

10.30 lb/ga

Vapor Pressure: <17.5 % VOC: <17.5

### Section 10. Stability and Reactivity

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

**Incompatibility with Various** 

**Substances:** 

Strong oxidizers, Strong bases, Strong acids

**Hazardous Decomposition** 

**Products:** 

Sulfur dioxide gas

**Possibility of Hazardous** 

**Reactions:** 

None known.

# Section 11. Toxicological Information

Chemical Name	Exposure	Type of Effect	Concentration	Species
Sodium bisulfite	Oral	LD50	2000 mg/kg	Rat

**Comments:** None.





# Section 12. Ecological Information

Species	Duration	Type of Effect	Test Results
Fathead Minnow	96h	LC50	>1000 mg/l
Sheepshead Minnow	96h	LC50	100 mg/l
Ceriodaphnia dubia	48h	LC50	390.4 mg/l
Mysid Shrimp	48h	LC50	70.7 mg/l

**Comments:** None.

# Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

# Section 14. Transport Information

**DOT** 

**Proper Shipping Name:** BISULFITES, AQUEOUS SOLUTIONS, N.O.S.

**Technical Name:** (SODIUM BISULFITE)

Hazard Class: Corrosive UN/NA#: UN2693 Packing Group: PGIII

**Over 1618 GA** 

**Proper Shipping Name:** RQ BISULFITES, AQUEOUS SOLUTIONS, N.O.S.

Technical Name: (SODIUM BISULFITE)

Hazard Class: Corrosive UN/NA#: UN2693
Packing Group: PGIII

**TDG** 

**Proper Shipping Name:** BISULFITES, AQUEOUS SOLUTIONS, N.O.S.

**Technical Name:** (SODIUM BISULFITE)

Hazard Class: Corrosive UN/NA#: UN2693
Packing Group: PGIII





#### **IMDG**

**Proper Shipping Name:** BISULFITES, AQUEOUS SOLUTIONS, N.O.S.

Technical Name: (SODIUM BISULFITE)

Hazard Class: Corrosive UN/NA#: UN2693 Packing Group: PGIII

**ICAO** 

**Proper Shipping Name:** BISULFITES, AQUEOUS SOLUTIONS, N.O.S.

**Technical Name:** (SODIUM BISULFITE)

Hazard Class: Corrosive UN/NA#: UN2693 Packing Group: PGIII

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

### **Other Sections**

	Section 313	Section 302 EHS	
Component	Toxic Chemical	TPQ	CERCLA RQ
Sodium bisulfite	N/A	N/A	5000

**Comments:** None.





### **State Regulations**

**California Proposition 65:** None known.

**Special Regulations** 

Component	States
Sodium bisulfite	MA, MN, NY, PA, WA

### **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.

# 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.

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

Maximum use rate for potable water – 50 mg/L

This product ships as NSF from:

Ashland, VA Eldridge, IA Nederland, TX Vernon, CA

**FDA/USDA/GRAS:** All ingredients in this product are authorized in 21 CFR

173.310 for use as "Boiler Water Additives" where the steam





may contact food.

**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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