



**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identity:** Calcium Lignosulfonate

**Chemical Name:** Calcium Lignosulfonate liquid.

**Recommended use of the chemical and restrictions on use:** Road stabilization and dust control.

**Distributor:** EnviroTech Services, Inc.  
910 54<sup>th</sup> Avenue Suite 230  
Greeley, CO 80634

**Telephone:** (970) 346-3900

**Emergency Phone: CHEMTREC: (800) 424-9300**

**SDS Date of Preparation:** 6/23/2017

**2. HAZARDS IDENTIFICATION**

**GHS Classification:**

Physical	Health	Environment
Not Hazardous	Not Hazardous	Not Hazardous

**GHS Label Elements:**

None Required

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS No.	Amount
Calcium lignosulfonate	8061-52-7	52-62%
Water	7732-18-5	38-48%

**4. FIRST AID MEASURES**

**Eye:** Flush victim's eyes with water while holding the eyelids apart. Get medical attention if irritation occurs and persists.

**Skin:** Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Remove and launder clothing before reuse.

**Ingestion:** Do not induce vomiting unless directed to do so by a medical professional. Rinse mouth with water and give one glass of water to drink. Do not give liquids to an unconscious person. Get medical attention if symptoms develop.

**Inhalation:** If symptoms occur, remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.

**Most important Symptoms:** May cause slight eye irritation. Inhalation of vapor may cause slight respiratory tract irritation.

**Indication of immediate medical attention/special treatment:** Immediate medical attention is not required.

## 5. FIRE FIGHTING MEASURES

**Suitable (and Unsuitable) Extinguishing Media:** Use media appropriate for surrounding fire. Cool fire exposed containers and structures with water.

**Specific hazards arising from the chemical:** Thermal decomposition may yield sulfur dioxide, oxides of carbon and calcium, and other harmful or irritating chemicals.

**Special Protective Equipment and Precautions for Fire-Fighting Instructions:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Aqueous solutions may cause surfaces to be extremely slippery and cause a slip hazard.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Wear appropriate protective clothing as described in Section 8. Wash thoroughly after handling.

**Methods and Materials for Containment and Cleaning Up:** Mop up material and collect in a suitable container for disposal. Flush spill area with water. Report releases as required by local, state, and federal authorities.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with the eyes, skin, and clothing. Avoid breathing vapors. Wear protective clothing and equipment as described in Section 8. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area away from incompatible materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines:

Calcium lignosulfonate	None Established
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**Engineering Controls:** Use with adequate general ventilation to minimize exposures.

**Respiratory Protection:** In operations where exposure levels are excessive, a NIOSH approved respirator with dust cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

**Skin Protection:** Wear impervious gloves such as rubber or neoprene if needed to avoid prolonged skin contact.

**Eye Protection:** Safety glasses recommended.

**Other:** Long-sleeved clothing and long pants recommended to avoid prolonged skin contact. Suitable washing facilities should be available in the work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance And Odor:** Brown to black viscous liquid with light odor.

<b>Physical State:</b> Liquid	<b>Specific Gravity:</b> 1.28 – 1.32
<b>Vapor Density:</b> Not determined	<b>Initial Boiling Point/Range:</b> 219°F
<b>Solubility In Water:</b> > 99% at 70°C	<b>Vapor Pressure:</b> 14.2 mmHg
<b>Density:</b> Not determined	<b>Evaporation Rate:</b> Not determined
<b>Melting/Freezing Point:</b> 28°F	<b>pH:</b> 3 – 4.5
<b>% Volatile by weight:</b> ~50%, evaporation water, heating to 219°F	<b>Octanol/Water Coefficient:</b> Not determined
<b>Solubility (other):</b> Not determined	<b>Decomposition Temperature:</b> Not determined
<b>Viscosity:</b> < 785 cP at 20°C	<b>Flammability (solid, gas):</b> Not flammable
<b>Flashpoint:</b> Not applicable	<b>Autoignition Temperature:</b> Not determined
<b>Flammable Limits: LEL:</b> Not determined	<b>UEL:</b> Not determined

## 10. STABILITY AND REACTIVITY

**Reactivity:** Not normally reactive.

**Chemical Stability:** Stable under normal storage and handling conditions. Avoid heating above 392°F.

**Possibility of Hazardous Reactions:** None known.

**Conditions to Avoid:** None known

**Hazardous Polymerization:** Will not occur.

**Incompatible Materials:** Strong oxidizing agents, concentrated acids (i.e. Nitric Acid), and strong alkalines.

**Hazardous Decomposition Products:** When heated to decomposition emits carbon and calcium oxides, and sulfur dioxide.

## 11. TOXICOLOGICAL INFORMATION

### HEALTH HAZARDS:

**Ingestion:** Ingestion may cause slight irritation.

**Inhalation:** Inhalation may cause slight irritation of the nose, throat, and upper respiratory tract.

**Eye:** May cause slight irritation.

**Skin:** May cause slight irritation on prolonged or repeated contact.

**Sensitization:** This material is not known to cause sensitization.

**Chronic:** None known.

**Carcinogenicity:** None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP, or OSHA.

**Germ Cell Mutagenicity:** None currently known.

**Reproductive Toxicity:** None currently known.

### Numerical Measures of Toxicity:

No toxicity data available

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No effect on the environment. Based on available data, the classification criteria are not met.

Organism	Species	Exposure	Test	Value	Conclusion	Test	Source
Fish	Brachydanio	96h	EC50	> 1000mg/l			Similar
Algae	Scenedesmus subspicatus	24, 48, 72h	EC50	> 600mg/l			Similar product
Crustacea	Daphnia	24, 48h	EC50	> 1000mg/l			Similar

**Persistence and Degradability:** Partially biodegradable 0.14-0.26 lbs BOD/lb of solids & 0.49-0.91 lbs. COD/lb solids.

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** Solubility in water: Completely miscible

**Other Adverse Effects:** None known

## 13. DISPOSAL CONSIDERATIONS

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

## 14. TRANSPORT INFORMATION

**DOT Hazardous Materials Description:**

Proper Shipping Name: Not regulated

UN Number: None

Hazard Class/Packing Group: None

Labels Required: None

## 15. REGULATORY INFORMATION

**CERCLA:** This product is not subject to CERCLA release reporting. Many states have more stringent release reporting requirements. Report spills required under federal, state, and local regulations.

**SARA Hazard Category (311/312):** Refer to Section 2 for OSHA Hazard Classification.

**SARA 313:** This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372): None

**EPA TSCA Inventory:** All of the ingredients in this product are listed on the EPA TSCA Inventory or exempt from listing.

**CANADA:**

This product has been classified under the CPR and this SDS discloses information elements required by the CPR.

**Canadian CEPA:** All the components of this product are listed on the Canadian DSL.

**Canadian WHMIS Classification:** Not classified as dangerous.

**16. OTHER INFORMATION**

**NFPA Rating:** Health = 0      Flammability = 0      Instability = 0  
**HMIS Rating:** Health = 1      Flammability = 0      Physical Hazard = 0

**Other Information:** Government regulations for use of this product are summarized below:  
21 CFR 173.310 - Boiler water additives 21 CFR 175.105 - Adhesives  
21 CFR 176.120; 176.170; 176.180; 178.3120 - Paper and paperboard components  
21 CFR 176.210 - Defoamers  
21 CFR 177.1210 - Polymers  
21 CFR 573.600 - Animal feed  
21 CFR 582.99 - Substances generally recognized as safe  
40 CFR 180.910; 180.920; 180.930; 21 CFR 172.715; 182.99 - Pesticides for Food

SDS Revision History:  
1/31/2017: New SDS  
6/23/2017: Reviewed, no changes needed

**Disclaimer:** *This Safety Data Sheet (SDS) is provided in response to customer requests to address the safe handling of the product. All statements, technical information and recommendations contained herein are the best of our knowledge, reliable and accurate. This SDS is not intended to make any representation as to how the product will perform when used for its intended purpose by a user. In that regards the product is sold "AS IS" and nothing in this SDS should be deemed to be a representation or warranty of any injury, loss, or damage, of any kind or nature, which are sustained by or arise from the use of the product. Nothing in this SDS is intended to be a representation or warranty by the manufacturer of the accuracy, safety, or usefulness for any purpose of any technical information, materials, techniques, or practices.*

*The information contained in this Safety Data Sheet is, to the best of our knowledge, accurate and reliable. This information should be provided to all individuals handling this product. Federal, state, and local regulations should be followed when handling this product.*