

# Safety Data Sheet

## Calcium Lignosulfonate

### SECTION 1: Identification of the substance/preparation and of the company/undertaking

#### 1.1. Product identifier

Trade name: Calcium Lignosulfonate

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended uses: Binder  
Dispersing agent

#### 1.3. Details of the manufacturer of the safety data sheet

Manufactured  
For:

Company: Desert Mountain Corporation  
Address: PO Box 1633  
Kirtland, NM  
Zip Code: 87417  
Country: United States  
Email: [info@desertmtncorp.com](mailto:info@desertmtncorp.com)  
Phone: +1(800)375-9264  
Fax: +1(505)598-0436

#### 1.4. Emergency Telephone Number

800-375-9264 (Emergency phone)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

#### 2.2. Label elements

The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

#### 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Substance	CAS number	Concentration	Notes
Calcium lignosulfonate	8061-52-7	~ 58%	
Water	7732-18-5	~ 42%	

### SECTION 4: First aid measures



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### 4.1. Description of first aid measures

- Inhalation:** Seek fresh air, wash out mouth with water and blow nose thoroughly.
- Ingestion:** Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.
- Skin contact:** Wash the skin with water. Remove contaminated clothing.
- Eye contact:** Flush with water (preferably using eyewash equipment) until irritation subsides. Seek medical advice if symptoms persist.

### 4.2. Most important symptoms and effects, both acute and delayed

None known.

### 4.3. Indication of any immediate medical attention and special treatment needed

None.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:** Not applicable.

**Unsuitable extinguishing media:** Not applicable.

### 5.2. Special hazards arising from the substance or mixture

### 5.3. Advice for fire-fighters

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.2. Environmental precautions

Avoid unnecessary release to the environment. Prevent spillage from entering drains and/or surface water.

### 6.3. Methods and material for containment and cleaning up

Sweep up/collect spills for possible reuse or transfer to suitable waste containers.

### 6.4. Reference to other sections

See section 8 for type of protective equipment.  
See section 13 for instructions on disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

No special requirements. Avoid contact with skin and eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in an area with secondary containment.

### 7.3. Specific end use(s)

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Occupational exposure limit:** Contains no substances subject to reporting requirements

#### 8.2. Exposure controls

**Appropriate engineering controls:** Provide sufficient ventilation during operations which cause vapour formation.

**Personal protective equipment, eye/face protection:** Wear safety goggles if there is a risk of eye splash.

**Personal protective equipment, skin protection:** Wear suitable protective clothing.

**Personal protective equipment, hand protection:** Wear gloves.

**Personal protective equipment, respiratory protection:** Not required.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Parameter	Value/unit	
State	Liquid	
Colour	Brown	
Odour	Mild	
Solubility	Water soluble.	
Explosive properties	No data	
Oxidising properties	No data	
Parameter	Value/unit	Remarks
pH (solution for use)	3 - 4.5	
pH (concentrate)		Not applicable.
Melting point	°C	Not applicable.
Freezing point	-2 °C	
Initial boiling point and boiling range	104 °C	
Flash Point	°C	Not applicable.
Evaporation rate	0.4	Water.
Flammability (solid, gas)		Not applicable.
Flammability limits		Not applicable.
Explosion limits	vol%	Not applicable.
Vapour pressure	14.2 mmHg	20 °C
Vapour density		20 °C
Relative density	1.302	Specific gravity.
Partition coefficient n-octanol/water		100% Water.
Auto-ignition temperature	°C	Not applicable.
Decomposition temperature	°C	Not applicable.
Viscosity	< 600 cSt	
Odour threshold	ppm	Not applicable.

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### 9.2 Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Not reactive.

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

Strong oxidizers.

#### 10.6. Hazardous decomposition products

None known.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

##### Calcium lignosulfonate

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5000mg/kg			

Based on available data, the classification criteria are not met.

**Acute toxicity - inhalation:** The product does not have to be classified.

##### Skin corrosion/irritation

##### Calcium lignosulfonate

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Non-irritating	OECD 404	

The product does not have to be classified.

##### Serious eye damage/eye irritation

##### Calcium lignosulfonate

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Non-irritating	OECD 405	

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The product does not have to be classified.

**Respiratory sensitization or skin sensitization:** None known.

**Germ cell mutagenicity:** None known.

**Carcinogenic properties:** The product does not have to be classified.

**Other toxicological effects**

**Calcium lignosulfonate**

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Mouse				Non-sensitising	OECD 429	

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Calcium lignosulfonate**

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

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

**12.2. Persistence and degradability**

Partially biodegradable 0.14-0.26 lbs BOD/lb of solids & 0.49-0.91 lbs. COD/lb solids.

**12.3. Bioaccumulative potential**

No bioaccumulation expected.

**12.4. Mobility in soil**

Solubility in water: Completely miscible

**12.5. Results of PBT and vPvB assessment**

None known.

**12.6. Other adverse effects**

None known.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**



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Dispose of in accordance with Local Authority requirements.

### SECTION 14: Transport information

<b>14.1. UN-No.:</b>	Not applicable.	<b>14.4. Packing group:</b>	Not applicable.
<b>14.2. UN proper shipping name:</b>	Not applicable.	<b>14.5. Environmental hazards:</b>	Not applicable.
<b>14.3. Transport hazard class(es):</b>	Not applicable.		

#### 14.6. Special precautions for user

None.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable.

**Other Information:** DOT Class 55 Lignin Pitch - Harmonized Tariff Code for US:3804.00.1000-0

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Special Provisions:** ADR/RID (2007) ECHA FAQ 7.7. GHS / CLP (EC NO1272/2008) GHS USA June, 2015.

**Authorizations / limitations:** Global inventory status:  
Australia: On AICS Australian Inventory of Chemical Substances, June 1996 Ed  
Canada: On DSL Supplement to Canada Gazette, Part I, January 26, 1991  
China: On IECSC Inventory of Existing Chemical Substances in China, 2013  
Japan: On ENCS Unlisted chemical name. For ENCS chemical class or category name, refer to ENCS No. 8-209.  
Korea: On ECL Korean Existing Chemicals List, January 1997, ECL Serial No.: KE-04572  
Mexico: On INSQ National Inventory of Chemical Substances in Mexico, 2012  
New Zealand: On NZIoC New Zealand Inventory of Chemicals, 2006 May be used as a single component chemical under an appropriate group standard.  
Philippines: On PICCS Philippines Inventory of Chemicals and Chemical Substances, 2000  
Switzerland: On SWISS Giftliste 1 (List of Toxic Substances 1), 31 May 1999, SWISS No.: G-44534  
USA: On TSCA Inventory January 2015 TSCA Inventory EPA Flags: XU Exempt from Update Rule

**TSCA:** All ingredients are on the inventory or exempt from listing.

**CERCLA:** None of the ingredients are on the inventory.

#### NFPA ratings

**Health hazard:** 0

**Flammability:** 0

**Instability:** 0

#### 15.2. Chemical Safety Assessment

**Other Information:** The product does not have to be classified.

### SECTION 16: Other information



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**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

**Vendor notes:**

Information given in this safety data sheet is in accordance with our information, and to the best of our knowledge, was correct on the last revision date. Information given is intended to present guidelines for safe handling, use, processing, storage, transport, disposal and discharge; it is not intended to be a guarantee or quality specification. It is the responsibility of the recipient of this safety data sheet to ensure that information given here is read and understood by all who use, handle, dispose of or in any way come in contact with the product.

**Revision date:**

4/20/2016

**Document language:**

US