

## Material Safety Data Sheet

### Section 1-Chemical Product and Company Identification

Trade Name of Product: Calcium lignosulfonate

Synonym: Calcium lignosulfonate

Chemical name: Lignosulfonate acid calcium salt

Chemical Formula: not available

### Contact Information

Headquarter

Address: Lizheyuan Apartment, South West Station Road, Fengtai District, Beijing, China

Zip code: 100072

Branch Address: WestXinluo St. High-tech Dist, Jinan, Shandong, China.

Email: info@greenagrochem.com

Http://www.greenagrochem.com

### Section 2-Composition Information on Ingredients

Product Code	GAC-CaLS-1	GAC-CaLS-2	GAC-CaLS-3
Appearance	Light Yellow powder	Yellow Brown powder	Yellow Brown powder
PH value	4-7	5-7	5-7
Dry matters	95%min	95%min	95%min
Water-insoluble	1.5%max	2%max	2.5%max
Sulphate	2%min	2%min	2%min
Total Calcium&magnesium(sulfate)	5%-8%	5%-8%	5%-6%
Lignosulphonate	55%min	50%min	50%min
Sugar	9%-10%	9%-12%	10-12%
Reducing Sugar	7%around	7%around	7%around
Ash	13%min	16%min	18%-21%
Bulk Density(kg/m3)	205	205	205
Moisture	7%Max	7%max	7%

CAS. **8061-52-7**

### Section 3-Hazards Identification

Potential Acute Health Effects: no specific information available in our databank regarding the acute effect of this material for humans.

Route of Entry: Eyes, Inhalation, Skin and Ingestion

### Section 4-First Aid Measures

Inhalation: Remove person to fresh air and support breathing as needed, Seek medical attention if irritation persists.

Ingestion : Seek medical attention or call a poison control center immediately.

Skin: No poisonous to skin. Remove contaminated clothing and wash before reusing. Flush skin with water, and then wash with soap and water. Seek medical attention if skin becomes irritated.

Eye: In such case flush eye immediately for at least 10 minutes. Get medical attention.

#### **Section 5-Fire and Explosion Hazard Data**

Flammability of the product: may be combustible at high temperature.

Flash point: Non-available

Flammable limits: Non-available

Product of combustion: Non-available

Special remarks on fire hazards: Non-available

Special remarks on explosion hazards: Non-available

#### **Section 6- Accidental Release Measures**

Small Spills: Clean up personnel should protect against mist inhalation and skin contact. Avoid generating mists, Spills when handling should be cleaned up immediately to prevent spreading.

Large Spills: use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evaluate through the sanitary system.

#### **Section 7- Precautions for Safe Handling and Use**

Precautions to be taken in handling and storing: Store in cool, dry areas away from children, feed and food products and sources of heat, Immediately clean up spills that occur during handling or storage.

Protect from freezing keep containers closed when not in use.

#### **Section 8-Exposure Controls /Personal Protection**

##### **Occupational Exposure Limits:**

No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH). However, Workplace Exposure Standard(s) for particulates: Particulates not otherwise classified: 8hr WES-TWA 10 mg/m<sup>3</sup> (inhalable dust) or 3 mg/m<sup>3</sup> (respirable dust) As published by the New Zealand Occupational Safety and Health Service (OSH).

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure. These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

##### **Engineering controls:**

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Avoid generating and breathing in dusts. Use with local exhaust ventilation or while wearing dust mask. Keep containers closed when not in use.

##### **Personal Protective Equipment:**

The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. Orica Personal Protection Guide No. 1, 1998: E - OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUSTMASK. Wear overalls, safety glasses and impervious gloves. Avoid generating and inhaling dusts. If excessive dust exists, wear dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

### **Section 9-Physical/Chemical Characteristics**

Physical state and appearance : Powder solid

Order: slight

Molecular weight: Not available

Color: yellow brown

Boiling point: Not available

Melting point: Not available

Critical temperature: Not available

Specific gravity: Not available

Vapor pressure: Not available

Vapor density: Not available

Solubility: easy soluble in cold water and hot water.

### **Section 10-Reactivity Data**

Stability: Product stable at room temperature in closed containers under normal storage and handling conditions

Chemical Incompatibilities: Strong bases and Acids

Condition to avoid: Avoid excessive heat.

### **Section 11-Toxicological Information**

Eye Effects: Irritation

Skin Effects: May cause irritation

Acute Inhalation Effects: Not Determined

Chronic Effects: No unusual chronic effects

Carcinogenicity: Not listed as carcinogenic

### **Section 12-Ecological Information**

Soil Absorption/Mobility: Mobile in soil profile

### **Section 13-Disposal Considerations**

Disposal: Dispose of in an approved landfill or apply at recommended label rates.

Disposal Regulatory Requirement: Follow applicable Federal, State and local regulations

### **Section 14-Transport Information**

Not regulated by the DOT

### **Section 15-Regulatory Information**

Sudden Release of Pressure: No Immediate: YES

Fire: No Delayed: No

Reactive: No

**Section 16-Other**

Disclaimer: All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.