

TECHNICAL DATA SHEET

## Sodium Lignosulfonate Dust Control Grade Powder

Bio-Based Dust Suppressant and Surface Binder for Roads, Mining Yards and Industrial Bulk Materials

<b>Product Code</b>	GAC-NaLS-DC	<b>Product Type</b>	Lignosulfonate / Dust Suppressant / Surface Binder
<b>CAS No.</b>	8061-51-6	<b>Physical Form</b>	Brown water-soluble powder
<b>Version</b>	V2.1   May 2026	<b>Primary Markets</b>	Road Dust - Mining Roads - Industrial Yards - Bulk Material Handling

<b>Primary Role</b> Dust suppressant	<b>Performance Focus</b> Surface binding and PM reduction	<b>Industrial Fit</b> Mining roads and yards	<b>Supply Support</b> Powder grade, export packing
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### 1. Product Overview

Sodium Lignosulfonate Dust Control Grade is a water-soluble lignin-based powder optimized for dust suppression and surface stabilization. After dilution and application, it forms a tacky organic binder film that captures fine particles and helps build a durable crust on dusty surfaces.

### 2. Key Performance Functions

- **Surface Binding:** binds loose particulate matter after water evaporation.
- **Dust Reduction:** reduces airborne fines during traffic, wind and bulk material handling.
- **Road Stabilization:** supports crust formation on unpaved roads and industrial yards.
- **Industrial Binder:** can assist pelletizing or compaction of selected bulk materials.
- **Chloride-Free Option:** bio-based alternative to corrosive chloride-based dust control chemicals.

### 3. Main Specifications

Parameter	Specification
<b>Appearance</b>	Brown powder
<b>Dry Matter</b>	>= 93%
<b>Water-Insoluble Matter</b>	<= 1.0%
<b>Water Reducing Capacity</b>	>= 5.0%
<b>Calcium &amp; Magnesium</b>	<= 0.5%
<b>Lignosulfonate Content</b>	>= 55%
<b>Reducing Sugar</b>	<= 7.0%
<b>Brix</b>	>= 50%
<b>Moisture</b>	<= 7.0%

Note: The above values are typical technical data for reference. Final agreed specification and COA shall prevail.

### 4. Recommended Application Areas

Application Area	Typical Use	Customer Value
<b>Unpaved Roads</b>	Diluted surface treatment for roads with frequent vehicle movement.	Reduces dust, improves surface cohesion and extends maintenance interval.
<b>Mining Haul Roads</b>	Dust suppressant for mine roads and loading areas.	Improves visibility, worker comfort and particulate control.
<b>Industrial Yards</b>	Surface binder for stockyards, plant roads and loading zones.	Reduces fine powder loss and facility dust levels.
<b>Bulk Material Handling</b>	Binder support for selected fine powders and aggregates.	Improves cohesion and reduces handling dust.
<b>Environment-Sensitive Areas</b>	Non-chloride dust control option after local assessment.	Reduces risk of corrosion compared with chloride salts.

## 5. Suggested Usage Guidance

Application	Typical Starting Dosage / Use	Technical Note
<b>Topical application</b>	0.3 - 0.5 gallons prepared solution / sq yd	Dilution depends on soil, traffic and climate.
<b>Initial treatment</b>	Higher concentration recommended	Apply evenly and allow surface curing.
<b>Maintenance treatment</b>	Lower concentration possible	Reapply based on rainfall, traffic and dust condition.
<b>Pilot test</b>	Recommended before full application	Confirm soil compatibility and target performance.

Dosage and application method should be verified by laboratory or pilot testing. Performance depends on formulation type, raw materials, process conditions, temperature, moisture, mixing time and target technical results.

## 6. Packaging, Storage & Handling

Packaging	Storage & Handling
<ul style="list-style-type: none"> <li>• 25 kg woven bags / kraft bags with inner PE liner.</li> <li>• 500 kg, 600 kg or 1,000 kg jumbo bags available on request.</li> <li>• Palletized, neutral or customized packing can be discussed.</li> </ul>	<ul style="list-style-type: none"> <li>• Store in a cool, dry and ventilated warehouse.</li> <li>• Keep away from moisture, rain, direct sunlight and strong oxidizing materials.</li> <li>• Recommended shelf life: 12 months under original sealed packaging.</li> </ul>

Please refer to the corresponding Safety Data Sheet before use. Product suitability for regulated applications must be confirmed separately according to local laws and customer requirements.

## 7. Documents & Technical Support

- TDS, SDS/MSDS, COA and agreed specification support.
- Sample arrangement and product grade recommendation.
- Packing photos, loading information and export document support.
- Application discussion and grade selection support for industrial buyers.

## 8. Inquiry Information

### For quotation, sample request or technical document support

Please provide application, required quantity, destination port, packaging preference and target technical requirement.

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## Disclaimer

The information in this Technical Data Sheet is provided for reference and general guidance only. It does not constitute a legally binding specification or warranty. Customers should conduct their own tests to determine product suitability for their intended application. Final commercial specification shall be subject to agreed contract, product grade and COA.