

TECHNICAL DATA SHEET			
Calcium Lignosulfonate Dust Control Liquid			
Liquid Calcium Lignosulfonate Binder for Road Dust Suppression, Surface Stabilization and Bulk Material Control			
<b>Product Code</b>	GAC-CaLS-DC-Liquid	<b>Product Type</b>	Calcium Lignosulfonate / Dust Control Liquid / Surface Binder
<b>CAS No.</b>	8061-52-7	<b>Physical Form</b>	Dark brown water-soluble liquid concentrate
<b>Version</b>	V2.1   May 2026	<b>Primary Markets</b>	Road Dust Control - Mining Roads - Industrial Yards - Soil Surface Binding
<b>Primary Role</b>	Calcium lignosulfonate dust binder	<b>Performance Focus</b>	Surface cohesion and crust formation
		<b>Best Fit</b>	Dusty roads and industrial surfaces
		<b>Supply Support</b>	TDS, SDS, COA and samples

## 1. Product Overview

Calcium Lignosulfonate Dust Control Liquid is a liquid lignin-based binder and dust suppressant designed for spray application on unpaved roads, mining haul roads, industrial yards, stockpiles and other dusty surfaces.

The calcium lignosulfonate structure provides surface activity, particle binding and natural tackiness after water evaporation. The liquid form supports easier dilution, faster field application and more uniform surface coverage compared with powder materials.

It is positioned as a chloride-free, bio-based alternative for dust-control programs where customers require practical handling, stable supply and site-specific technical support.

## 2. Key Performance Functions

- **Surface Binding:** captures fine dust particles and binds them into the treated road or soil surface.
- **Crust Formation:** forms a tacky film during drying and helps create a durable surface crust after curing.
- **Liquid Application:** easy to dilute, pump and spray using standard water truck or spray equipment.
- **Dust Emission Reduction:** reduces airborne particulate matter from traffic, wind and material handling.
- **Chloride-Free Treatment:** suitable for customers seeking alternatives to chloride-based dust suppressants.
- **Multi-Use Binder:** can support dust control for stockpiles, bulk solids and selected compressed material applications.

## 3. Main Specifications

Parameter	Specification
<b>Appearance</b>	Dark brown liquid
<b>Solid Content</b>	45% - 55%
<b>Lignosulfonate Content</b>	>= 45% on liquid basis
<b>pH Value</b>	4.0 - 7.0
<b>Density</b>	Approx. 1.20 - 1.28 g/cm <sup>3</sup>
<b>Water Solubility</b>	Completely miscible with water
<b>Water-Insoluble Matter</b>	<= 1.0%
<b>Calcium Salt Form</b>	Calcium lignosulfonate liquid
<b>Viscosity</b>	Product and temperature dependent
<b>Odor</b>	Slight characteristic lignin odor

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>Road Dust Suppression</b>	Spray treatment for unpaved roads, mining haul roads and construction roads.	Reduces dust generation and improves surface stability.
<b>Industrial Yards</b>	Dust-control treatment for loading zones, storage areas and traffic surfaces.	Supports cleaner operations and reduced dust migration.
<b>Stockpiles &amp; Material Storage</b>	Surface binder for dusty mineral, coal, aggregate or fertilizer piles.	Reduces wind-blown fines and surface dust loss.
<b>Soil Surface Stabilization</b>	Temporary stabilization for selected soil and aggregate surfaces.	Improves cohesion where site conditions are suitable.
<b>Bulk Material Handling</b>	Binder support for fine particles and dusty industrial solids.	Helps reduce powder loss and handling dust.

## 5. Suggested Usage Guidance

Application	Typical Starting Dosage / Use	Technical Note
<b>Dilution before spraying</b>	Dilute with clean water before field application	Dilution ratio should be adjusted by equipment, soil absorption and desired binding strength.
<b>Topical road treatment</b>	0.3 - 0.5 gallons prepared solution per square yard	Optimize by traffic, road base, climate and dust level.
<b>Stockpile / yard treatment</b>	Apply uniformly to the surface	Avoid runoff and confirm compatibility with handled materials.
<b>Maintenance treatment</b>	Reapply as needed	Reapplication depends on rainfall, traffic abrasion and surface wear.

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

<p><b>Packaging</b></p> <ul style="list-style-type: none"> <li>IBC tank, flexitank, drum or bulk liquid shipment available according to order volume.</li> <li>Packing can be customized according to export route, destination port and customer unloading conditions.</li> <li>Keep containers tightly closed during transport and storage.</li> </ul>	<p><b>Storage &amp; Handling</b></p> <ul style="list-style-type: none"> <li>Store in closed containers in a cool, dry and ventilated place.</li> <li>Protect from freezing, overheating, direct sunlight and contamination.</li> <li>Mix or circulate before use if viscosity change or slight settling occurs during long storage.</li> <li>Recommended shelf life: 6-12 months under original sealed packaging and proper storage conditions.</li> </ul>
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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.