

**TECHNICAL DATA SHEET**

## Sodium Lignosulfonate Dispersant Grade

Bio-Based Industrial Dispersant for Agrochemical, Ceramic, Construction, Dye and Pigment Systems

<b>Product Code</b>	GAC-NaLS-Dispersant	<b>Product Type</b>	Lignosulfonate / Dispersant / Stabilizer
<b>CAS No.</b>	8061-51-6	<b>Physical Form</b>	Powder or liquid water-soluble grade
<b>Version</b>	V2.1   May 2026	<b>Primary Markets</b>	Agrochemicals - Ceramics - Dyes - Pigments - Construction

<b>Primary Role</b> Dispersant and suspension aid	<b>Performance Focus</b> Anti-settling and particle wetting	<b>Industrial Fit</b> WP/WG/SC, dyes, ceramics, cement	<b>Supply Support</b> Powder/liquid options
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### 1. Product Overview

Sodium Lignosulfonate Dispersant Grade is a lignin-derived anionic dispersant designed to suspend solid particles and stabilize aqueous formulations.

It is suitable for industrial formulations where dispersion, anti-settling performance, particle wetting and formulation stability are required.

### 2. Key Performance Functions

- **Particle Dispersion:** reduces particle agglomeration in water-based systems.
- **Suspension Stability:** supports uniform distribution and reduces settling.
- **Wetting Support:** improves contact between water phase and fine solids.
- **Formulation Compatibility:** useful in agrochemical, dye, pigment, ceramic and cement systems.
- **Bio-Based Profile:** lignin-derived functional polymer for customers seeking renewable additives.

### 3. Main Specifications

Parameter	Powder Grade	Liquid Grade
<b>Appearance</b>	Brown powder	Brown liquid
<b>Dry Matter</b>	>= 95%	>= 45%
<b>Water-Insoluble Matter</b>	<= 0.5%	<= 0.5%
<b>Calcium &amp; Magnesium</b>	<= 0.5%	<= 0.5%
<b>Lignosulfonate Content</b>	>= 70%	>= 70%
<b>Moisture</b>	<= 7.0%	<= 55.0%

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>Agrochemical Formulations</b>	Dispersant for wettable powders, water dispersible granules and suspensions.	Improves active ingredient distribution and application uniformity.
<b>Dyes &amp; Pigments</b>	Dispersant for dye and pigment suspensions.	Improves color consistency and reduces clumping.
<b>Ceramic Slurries</b>	Dispersing aid for clay and mineral particles.	Supports uniform body structure and processing consistency.
<b>Concrete Admixtures</b>	Auxiliary plasticizer and cement dispersant.	Improves workability and particle dispersion.
<b>Industrial Suspensions</b>	Stabilizer for insoluble solid/liquid formulations.	Reduces settling and improves formulation storage stability.

## 5. Suggested Usage Guidance

Application	Typical Starting Dosage / Use	Technical Note
<b>Agrochemical WP/WG/SC</b>	Trial dosage recommended	Optimize according to active ingredient, filler and milling process.
<b>Dye / pigment dispersion</b>	0.5% - 5.0% starting range	Adjust by pigment surface and required viscosity.
<b>Ceramic slurry</b>	0.1% - 1.0% starting range	Adjust by solids content and clay/mineral system.
<b>Construction formulation</b>	0.2% - 0.5% starting range	Confirm compatibility with cement and admixture components.

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

<b>Packaging</b> <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>	<b>Storage &amp; Handling</b> <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>
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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.

**Website:** [www.lignincorp.com](http://www.lignincorp.com) | **Email:** [info@greenagrochem.com](mailto:info@greenagrochem.com)

## 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.