

MATERIAL SAFETY DATA SHEET

Potassium Lignosulfonate — Agri Grade

16-section safety data sheet for GAC-KLS (GHS format)

Product Code	GAC-KLS	CAS No.	8061-51-6
Product Grade	Potassium Lignosulfonate — Agri Grade	Physical Form	Yellow-brown powder / granules
Supplier	Green Agrochem	Email	info@greenagrochem.com

SECTION 1: IDENTIFICATION

Product Identifier	Potassium Lignosulfonate — Agri Grade (GAC-KLS)
Synonyms	Potassium Lignosulfonate — Agri Grade
Recommended Use	Concrete plasticizer / water reducer, dispersant, dust-control binder, animal feed additive
Supplier	Green Agrochem www.greenagrochem.com info@greenagrochem.com
Source Document	Potassium Lignosulfonate — Agri Grade Technical Data Sheet

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Classification	Not classified as hazardous under normal industrial handling based on available data
Signal Word	Not applicable based on available information
Potential Hazards	Fine powder/granules may cause temporary mechanical irritation to eyes, skin, nose or throat
Precautionary Statements	Avoid breathing dust. Wear protective gloves, safety glasses and a dust mask during prolonged or repeated handling. Wash hands after use

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Main Component	Potassium Lignosulfonate (CAS 8061-51-6), a polymeric anionic surfactant derived from the sulfonation of natural lignin
pH	4 – 7, per published specification
Dry Matter	95% min, per published specification
Water-insoluble Matter	1.0% max, per published specification
Sulfate	2% min, per published specification
K2O	8% min, per published specification
Lignosulphonate Content	55% min (dry basis), per published specification
Total Reducing Matter	7% min, per published specification
Density	0.532 g/cm3, per published specification
Moisture	5% max, per published specification
Trade Secret Statement	Exact batch-level composition and process parameters are proprietary and are controlled by sales contract and the accompanying batch Certificate of Analysis (COA)

SECTION 4: FIRST-AID MEASURES

Inhalation	Move the affected person to fresh air. Seek medical attention if irritation or breathing discomfort persists
Skin Contact	Not expected to be hazardous under normal use. Remove contaminated clothing, flush with water, then wash with soap and water
Eye Contact	Flush immediately with clean water for at least 10 minutes. Seek medical attention if irritation persists
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention if discomfort occurs

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, foam, dry chemical powder or carbon dioxide
Specific Hazards	May be combustible at high temperature; combustion may generate irritating fumes
Protective Equipment	Firefighters should wear self-contained breathing apparatus in enclosed or poorly ventilated areas

SECTION 6: ACCIDENTAL RELEASE MEASURES	
Personal Precautions	Avoid dust/mist generation and inhalation; avoid skin and eye contact
Environmental Precautions	Prevent large quantities from entering drains, waterways or soil
Clean-up Methods	Collect with a shovel into a suitable waste container; flush residual contamination with water per local regulations

SECTION 7: HANDLING AND STORAGE	
Handling	Use with adequate ventilation. Avoid generating dust. Clean up spills immediately
Storage	Store in a cool, dry, well-ventilated area, in sealed original packaging, away from children, food/feed products and heat sources. Protect from freezing
Incompatibilities	Keep away from strong oxidizing agents, strong acids and strong bases, and excessive heat

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION	
Engineering Controls	Provide local exhaust or general ventilation where dust may be generated
Respiratory Protection	Not normally required under adequate ventilation; use an approved particulate respirator or dust mask if airborne dust is present
Eye / Skin Protection	Safety glasses, protective gloves and suitable work clothing recommended
Hygiene Measures	Wash hands after handling and before eating, drinking or smoking

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Yellow-brown powder / granules
Odor	Slight, characteristic
pH	4 – 7
Dry Matter	95% min
Water-insoluble Matter	1.0% max
Sulfate	2% min
K2O	8% min
Lignosulphonate Content	55% min (dry basis)
Total Reducing Matter	7% min
Density	0.532 g/cm3
Moisture	5% max
Solubility	Readily soluble in cold and hot water
Flash Point	Not applicable; not expected to be readily flammable under normal handling

SECTION 10: STABILITY AND REACTIVITY	
Reactivity	No dangerous reaction known under normal handling and storage conditions
Chemical Stability	Stable at room temperature in closed containers under normal conditions
Conditions to Avoid	Excessive heat, moisture ingress, prolonged exposure to strong acids or bases
Incompatible Materials	Strong oxidizing agents, strong acids, strong bases

SECTION 11: TOXICOLOGICAL INFORMATION	
Likely Routes of Exposure	Inhalation of dust, eye contact, skin contact, accidental ingestion
Acute Effects	May cause mild irritation to eyes and skin; no specific acute toxicity effects documented
Chronic Effects	No unusual chronic effects known
Carcinogenicity	Not listed as a carcinogen by IARC, NTP or OSHA

SECTION 12: ECOLOGICAL INFORMATION	
Ecotoxicity	No product-specific aquatic toxicity data available
Persistence and Degradability	Derived from natural lignin/humic substances; expected to be inherently biodegradable
Mobility in Soil	Mobile in soil profile due to high water solubility

SECTION 13: DISPOSAL CONSIDERATIONS	
Waste Treatment	Dispose of unused material and contaminated packaging per local, regional and national regulations, or apply at recommended agronomic label rates
Recommendation	Do not discharge large quantities into drains or natural waterways

SECTION 14: TRANSPORT INFORMATION	
UN Number	Not regulated as a dangerous good based on available information
Special Precautions	Protect from moisture and package damage during transport

SECTION 15: REGULATORY INFORMATION	
Regulatory Status	Prepared for industrial reference. Final classification, labeling and transport compliance must be verified against destination-country regulations
Hazard Communication	Use the current 16-section SDS/MSDS format and provide worker training according to applicable regulations

SECTION 16: OTHER INFORMATION	
Revision No.	1.0
Prepared By	Green Agrochem — Technical Documentation
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