



Production

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Material Safety Data Sheet
for Ameliorant-Soil Conditioner of a Long Lasting Effect
Soil Activator AridGrow® LHSA-C

MSDS Date: 15-03-2018

Product Name: AridGrow LHSA-C (Liquid Humic Soil Activator - Concentrated)

Inventor: AridGrow Laboratories Ltd. (UK)

Manufacturer: AridGrow Production JLLC (Belarus)

I. Product and Company Description AridGrow Production JLLC, Belarus, 247988, Chervonoe 31-1, Zhitkovichi District, Gomel Region

Product Information/Emergency Phone/Fax Number: +375 17 235-64-64

Product Use: Soil & Plant Treatment (Organic Farming)

Chemical Name or Synonym: Concentrated Aqueous Mixture of Humic Substances extracted from Natural Peat

Molecular Formula: NA

II. Chemical Composition

No	Component	Composition
1.	Lignohumic Acids	40%
2.	Humic Acids	30%
3.	Fulvic Acids	6%
4.	Amino Acids	4%
5.	Microelement Complex B, Ca, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, S, Se, Si, Zn in the water soluble Complexing Agent – Lignohumic Acids	13,5%
6.	Total Nitrogen (N)	6%
7.	Phosphorus (P ₂ O ₅)	0,3%
8.	Potassium (K ₂ O)	0,2%

III. Hazards Identification

A. Emergency Overview:

Physical Appearance and Odor: Dark-Brown Liquid with a characteristic Smell of Ammonia.

B. Potential Health Effects:

Acute Eye: None

Acute Skin: None

Acute Inhalation: May cause irritation to the respiratory tract and mucous membranes.

Acute ingestion: None

Chronic effects: None

IV. First Aid Measures

First Aid Measures for Accidental Exposure:

Eye Exposure: None

Skin Exposure: None

Inhalation: Remove to fresh air. Seek medical attention if breathing becomes difficult.

Ingestion: None

V. Fire Fighting Measures

Fire Hazard Data:

Flash Point: ND

Method Used: ND

Ignition Temperature: ND

Flammability Limits (vol/vol %): Lower: ND **Upper:** ND

Extinguishing Media: None

Special Fire Fighting Procedures: Move barrels from fire areas if possible.

Unusual Fire and Explosion Hazards: None

Hazardous Decomposition Materials (Under Fire Conditions): None

VI. Accidental Release Measures

Cleanup and Disposal of Spill: Dispose of materials according to the applicable Federal, State, or local regulations.

VII. Handling and Storage

Handling: Keep barrels closed. Avoid inhalation.

Storage: Store in a dark place far from direct sunshine and temperature range 0°C/+40°C.

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

No	Component	Exposure limits
1.	Peat	ND
2.	Water	NA

Engineering Controls: Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS.

Respiratory Protection: Follow the OSHA respirator regulations found in 29CFR 1910.134. Always use a NIOSH approved respirator when necessary.

Eye / Face Protection: None

Skin Protection: None

IX. Physical and Chemical Properties

Physical Appearance: Dark-Brown Liquid

Moisture (H₂O): 95%

Odor: Characteristic smell of ammonia

Acidity (pH), range: 6-10

Specific Gravity: 1.0

Water Solubility: soluble

Melting Point Range: NA

Boiling Point Range: 100°C (212°F)

Vapor Pressure: ND

Bulk Density: 1 kg/1 liter

Percent Volatile: ND

Evaporation Rate: as water

X. Stability and Reactivity

Chemical Stability: Stable under standard use and storage conditions.

Conditions to Avoid: Keep in a well-ventilated place or open air when open.

Materials / Chemicals to be Avoided: Strong oxidizing agents.

Hazardous Decomposition Products: Characteristic smell of natural ammonia (NH₃) because of high concentration of the product

Hazardous Polymerization: None

XI. Toxicological Information

The toxicological properties for the product:

Acute Oral Toxicity: LD₅₀: 7500 mg/kg (rat)

Acute Dermal Toxicity: None

Acute Inhalation Toxicity: None

Chronic Toxicity: None

XII. Ecological Information

Ecotoxicological Information:

Degradation: None

Accumulation: None

Fish-Toxicity: None

Chemical Fate Information: Not Determined

XIII. Disposal Considerations

Waste Disposal Method: Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

Container Handling and Disposal: Dispose of container and unused contents in accordance with federal, state, and local regulations.

XIV. Transportation Information

Belarus Ministry of Transport and Communications Rating:

Proper Shipping Name: Not regulated

Hazard Class: Not regulated

ID Number: Not regulated

Packaging Group: Not regulated

XV. Regulatory Information

Title IV Hazard Classes:

Fire Hazard: NO

Reactive Hazard: NO

Release of Pressure: NO

Acute Health Hazard: NO

Chronic Health Hazard: NO

Toxic Substances Control Act (TSCA): All components are included in the inventory are ONLY of natural origin.

Other Regulations:

None of the chemicals in this product is contained.

XVI. Other Information

Belarus Ministry for Emergency Situations Hazard Ratings – BMES(R):

Health Hazard: 0

Flammability: 0

Reactivity: 0

Key Legend Information:

NA – Not Applicable

ND – Not Determined

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