



Production

Office: Belarus, 220025, Minsk, Slobodskaya Street 125, Office 134
 Tel: +375 (17) 235-63-63 | Fax: +375 (17) 235-64-64 | e-mail: Belarus@aridgrow.eu
 Production: Belarus, 247988, Gomel Region, Zhitkovichi District,
 Chervonoe Settlement 31-1 | http://www.aridgrow.eu/

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

MSDS Date: 20-12-2017

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 cool & dry place far from direct sunshine and temperature **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

The information contained herein is based on the data available to us and is believed to be correct. However AridGrow Laboratories Ltd. & AridGrow Production JLLC make no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. For more details or contact, please visit www.aridgrow.eu