



Production

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

MSDS Date: 22-01-2020

Product Name: AridGrow PHSC-C (Powdered Humic Soil Creator - 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 Powdered Mixture of Humic Substances extracted from Natural Peat

Molecular Formula: NA

II. Chemical Composition

| No | Component | Composition |
|----|--|-------------|
| 1. | Humic Substances (Humins) | 50% |
| 2. | Humic Acids | 20% |
| 3. | Fulvic Acids | 6% |
| 4. | Amino Acids | 4% |
| 5. | Microelement Complex: B, Co, Cr, Cu, Mg, Mn, Mo, Ni, Se, Si, Zn in the water soluble Complexing Agent – Humic Acids | 16,5% |
| 6. | Total Nitrogen (N) | 3% |
| 7. | Phosphorus (P ₂ O ₅) | 0,2% |
| 8. | Potassium (K ₂ O) | 0,3% |

III. Hazards Identification

A. Emergency Overview:

Physical Appearance and Odor: Dark-Brown Powder without Any Smell.

B. Potential Health Effects:

Acute Eye: None

Acute Skin: None

Acute Inhalation: None

Acute ingestion: None

Chronic effects: None

IV. First Aid Measures

First Aid Measures for Accidental Exposure:

Eye Exposure: None

Skin Exposure: None

Inhalation: None

Ingestion: None

V. Fire Fighting Measures

Fire Hazard Data:

Flash Point: ND

Method Used: ND

Ignition Temperature: >140 C°

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

Extinguishing Media: Water spray, Dry extinguisher, foam or CO₂

Special Fire Fighting Procedures: Move bags 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 Spillage: Dispose of materials according to the applicable Federal, State, or local regulations.

VII. Handling and Storage

Handling: None

Storage: Store in a cool, dry & dark place far from direct sunshine and temperature range -30°C/+40°C. Prevent unwanted encapsulation of moisture.

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

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

Engineering Controls: None

Respiratory Protection: None

Eye / Face Protection: None

Skin Protection: None

IX. Physical and Chemical Properties

Physical Appearance: Black Powder

Moisture (H₂O): 45%

Odor: without any odor

Acidity (pH), range: 5,5-7,5

Specific Gravity: 2.2

Water Solubility: not soluble

Melting Point Range: NA

Boiling Point Range: NA

Vapor Pressure: ND

Bulk Density: 450 kg/1 cubic meter

Percent Volatile: ND

Evaporation Rate: NA

X. Stability and Reactivity

Chemical Stability: Stable under standard use and storage conditions.

Conditions to Avoid: Keep away from heat, ignition sources, and electrostatic discharge.

Materials / Chemicals to be Avoided: Strong oxidizing agents.

Hazardous Decomposition Products: None

Hazardous Polymerization: None

XI. Toxicological Information

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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