



Innovative Plant Health Solutions
SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity:	Agri Plus AS
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Recommended use of the chemical and restrictions on use:	None known
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Supplier:	Horizon Ag-Products, L.P. 1819 Denver West Drive Suite 350 Lakewood, Colorado 80401 1-720-508-7500
Emergency Phone:	For Chemical Emergency Spill, Leak, Fire, or Accident Call CHEMTREC Day or Night Phone: 1-800-424-9300

SDS Date of Preparation: 7/28/20

2. HAZARDS IDENTIFICATION

GHS Classification:		
Physical:	Health:	Environmental:
Not Hazardous	Not Hazardous	Not Hazardous

GHS Label Elements:

None Required

Statement of Hazard	Precautionary Phrases
None Required	None Required

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Non-Hazardous ingredients	Mixture	Balance
Humic Acids (Derived from Leonardite)	Proprietary	≥70%

The exact concentration is being withheld as a trade secret.

4. FIRST AID MEASURES

<p>Eye: Flush eyes with water, while holding the eyelids apart. Get medical attention if irritation occurs and persists.</p> <p>Skin: Remove contaminated clothing and shoes. Flush skin thoroughly with water for several minutes. Get medical attention if irritation occurs. Launder clothing before re-use.</p> <p>Ingestion: Do not induce vomiting unless directed to do so by a medical professional. Rinse mouth with water and give one glass of water to drink. Get medical attention if symptoms develop.</p>

Inhalation: Remove victim to fresh air. Get medical attention if symptoms occur and persist.

Most Important Symptoms: May cause slight eye and skin irritation. Inhalation of dust may cause mucous membrane and respiratory irritation.

Indication of immediate medical attention/special treatment: Immediate medical attention is not required.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use media appropriate for surrounding fire. Cool fire exposed containers and structures with water.

Specific Hazards Arising From the Chemical: Hazardous decomposition products include oxides of carbon and unknown materials.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals.

Explosion Data (sensitivity to mechanical impact or static discharge): None known.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Avoid contact with eye, skin, and clothing. Wear appropriate protective clothing.

Methods and Materials for Containment and Cleaning Up: Sweep up in a method that prevents the generation of airborne dust and place in an appropriate container. Prevent spill from entering sewers and water courses. Do not contaminate surface water. Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eye, skin, and clothing. Wear appropriate protective clothing. Use with adequate ventilation. Avoid breathing dust if present. Keep containers closed when not in use. Ensure all containers are labeled.

Do not reuse containers. Empty containers retain product residues and contaminants which can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, dry, well-ventilated area away from bases and other incompatible materials. Keep container tightly closed. Protect from physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Non-Hazardous ingredients	None Established
Humic Acids	None Established

Engineering Controls: Use with adequate general or local exhaust ventilation.

Respiratory Protection: Respiratory protection is not normally needed. In operations where exposures are excessive or symptoms occur, an approved respirator with dust/mist cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Wear impervious gloves to prevent skin contact.

Eye Protection: Chemical safety glasses with side shield or goggles should be worn where contact is possible.
Other: Impervious coveralls, apron and boots as needed to avoid prolonged contact. Suitable washing facilities should be available in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Dark brown granular solid	
Physical State: Solid	Odor Threshold: Not determined
Vapor Density: Not determined	Initial Boiling Point/Range: Not determined
Solubility In Water: Dispersible.	Vapor Pressure: Not determined
Relative Density: 0.6-0.75	Evaporation Rate: Not determined
Melting/Freezing Point: Not determined.	pH: 6-7
VOC Content: Not determined.	Octanol/Water Coefficient: Not determined
Solubility: Soluble in water.	Decomposition Temperature: Not determined
Viscosity: Not determined	Flammability (solid, gas): Not applicable
Flashpoint: Not determined	Autoignition Temperature: Not applicable
Flammable Limits: LEL: Not applicable UEL: Not applicable	Moisture Content: Not determined

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.
Chemical Stability: Stable under normal storage and handling conditions.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Avoid extreme heat or freezing temperatures.
Incompatible Materials: Strong bases, strong oxidizing agents and alkalis.
Hazardous Decomposition Products: Decomposition may release oxides of carbon and unknown materials.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:
Eye: May cause slight irritation with redness and tearing.
Skin: Causes slight skin irritation, dermatitis, or defatting of skin tissues.
Ingestion: Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting and diarrhea.
Inhalation: Inhalation of dust may cause mild irritation of the nose throat and upper respiratory tract.
Chronic: None known.
Sensitization: This material is not known to cause sensitization.
Carcinogenicity: None of the components present are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.
Germ Cell Mutagenicity: This product is not classified as a mutagen.
Reproductive Toxicity: This product is not classified as toxic to reproduction.

Numerical Measures of Toxicity:
 Calculated ATE_{mix}: Oral LD50: >5000 mg/kg
 Non-Hazardous ingredients: Not acutely toxic.
 Humic Acids: Not acutely toxic.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not data available for the mixture. This product is not expected to be harmful to the environment.

Persistence and Degradability: Biodegradation is not applicable to inorganic substances.

Bioaccumulative Potential: Not data available.

Mobility in Soil: No data available

Other Adverse Effects: None known.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local and national environmental regulations.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Description: Not Regulated

IMDG Shipping Description: Not Regulated

IATA Shipping Description: Not Regulated

15. REGULATORY INFORMATION

CERCLA 103 Reportable Quantity: This product is not subject to reporting under CERCLA. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Hazard Category for Section 311/312: Refer to Section 2 for OSHA Hazard Classification.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Section 302 Extremely Hazardous Substances (TPQ): None

INTERNATIONAL CHEMICAL INVENTORY STATUS:

United States TSCA: All the components are listed.

16. OTHER INFORMATION

NFPA Rating: Health = 1

Flammability = 0

Instability = 0

HMIS Rating: Health = 1

Flammability = 0

Physical Hazard = 0

Revision Summary:

6/19/17: New SDS

10/2/17: Update Sec 9

02/19/20: Revised Address in Sec. 1.

3/5/20: Updated Section 2, 4, 6, 7, 11, 15, and 16.

7/28/20: Updated Sections 1,2, 3, 8, 9, 11, 15, and 16.

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Horizon Ag-Products, L.P. shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.