



SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS REVISION 5, OSHA 29CFR 1910.1200.

Section 1: Chemical Product and Company Identification

MANUFACTURER'S NAME

HydroGro, LLC
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EMERGENCY TELEPHONE

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Safety Data Sheet Competent Person: Customer Service

DATE PREPARED:

December 12, 2023

REVISION DATE: December 12, 2023

PRODUCT NAME:

SeedStart Gaia

FORMULA:

Preparation/Mixture

PRODUCT USE:

For use as a supplemental seed treatment, foliar, or in-furrow application in agriculture.

Section 2: Hazards Identification



GHS Hazard Class

Eye irritation: 1A H318 – Causes serious eye damage/eye irritation.
Environmental hazards: 1B H400 – Acute aquatic toxicity.
1A H410 – Chronic aquatic toxicity

Signal word:

WARNING

Hazard Statement:

H318: Causes serious eye damage.

H400: Toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink, or smoke when using this product.

P273: Avoid release to the environment.

Response

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P313+P330: IF SWALLOWED: Rinse mouth. Call a poison center or doctor/physician if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists, get medical advice/attention.

P391: Collect spillage. Hazardous to the aquatic environment.

Storage

P405: Store locked up.

P410+P412: Protect from sunlight. Do not expose to temperature exceeding 122°F (50°C) or store at temperatures below 40°F (4°C).

Disposal

P501: Dispose of contents/container in accordance with the waste disposal requirements of your country, state, or local authorities.

Hazards not otherwise classified (HNOC) or not covered by GHS - None

HAZARD CLASSIFICATION:

This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

FIRE AND EXPLOSION:

Not considered flammable or combustible. Product emits toxic fumes when burned.

POTENTIAL HEALTH EFFECTS:

<1 % of mixture consists of ingredients of unknown acute toxicity.



APPEARANCE: Dark brown soluble liquid.

NFPA RATING:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
SeedStart Gaia	2	0	0	-----

Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPROX %	CAS NO.	EC NUMBER	CANADA DSL
Water	< 30%*	7732-18-5	231-791-2	Y
Zinc Sulfate	< 4%*	7733-02-0	-	
Zinc Sulfate Monohydrate	<2%*	7446-19-7	231-793-3	
Kelp (<i>Ecklonia maxima</i>)	< 20%	-	-	-

*Some items on this SDS may be designated as trade secrets (TS). Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

Section 4: First Aid Measures

Description of First Aid Measures

General Information

Contact with eyes or skin may cause irritation. Undiluted material will be irritating on direct contact with eyes. Clothing should be thoroughly washed before re-use.

Inhalation

Remove to fresh air. Get immediate medical attention if breathing becomes difficult.

Skin Contact

Immediately wash skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing. Get medical attention if irritation develops or persists.

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing. Get immediate medical attention if irritation persists.

Ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Give ½ to one glass of water to dilute the material if victim is alert and not convulsing. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water. Never give anything to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms/Injuries after Inhalation

May cause respiratory tract irritation.

Symptoms/Injuries after Skin Contact

May cause mild skin irritation. Symptoms may include redness, drying, defatting, and cracking of the skin.

Symptoms/Injuries after Eye Contact

Causes mild eye irritation. Symptoms may include discomfort or pain, excess blinking, and tear production, with possible redness and swelling.

Symptoms/Injuries after Ingestion

Mildly harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

Section 5: Fire-fighting Measures



Suitable extinguishing media

Unsuitable extinguishing media

Special hazards arising from the substance or mixture

Protective actions fire-fighters

Further information

Use foam, dry chemical, carbon dioxide, or any media suitable to extinguish the surrounding fire.

Do not use water jet as an extinguisher.

Not flammable.

Self-contained breathing apparatus and full protective clothing for firefighting is necessary.

Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Do not allow fire protection water to enter sewer or discharge to open water.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Wear proper personal protective equipment. Avoid breathing fumes. Ensure adequate ventilation. Avoid contact with eyes or skin.

Environmental precautions

Prevent further spillage if safe to do so. Prevent spills or contaminated rinse water from entering sewers or watercourses.

Methods and materials for containment and clean-up

In case of small spills, absorb with sand or other non-combustible absorbent material and put spilled material in a plastic container. Dispose of according to the requirements of your country, state, or local authorities.

In case of large spills, dike far ahead of liquid spills. Absorb with inert material and put into a plastic container. Dispose of according to the requirements of your country, state, or local authorities.

Reference to other Sections For personal protection reference section 8. For disposal reference section 13.

Section 7: Handling and Storage

Precautions for safe handling

Use only with adequate ventilation.

Keep out of reach of children.

Wear proper protective equipment when handling this material.

Avoid contact with skin, eyes, or clothing.

Wash hands and face after handling this material.

A plastic container should be used for disposal.

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Store upright in a cool, dry place.

Keep container closed when not in use.

Do not store below 40°F (4°C).

Keep from freezing.

Keep away from heat exceeding 225°F (107°C).

Utilize chemical segregation.

Follow all applicable local regulations for handling and storage.

Specific uses

This product is intended to be used for seed treatments.

Section 8: Exposure Controls/Personal Protection

Control Parameters

This product contains no substances with occupational exposure limit value.

Exposure controls

**VENTILATION:****SPECIAL VENTILATION CONTROLS:****EXPOSURE CONTROLS****RESPIRATORY PROTECTION:****PROTECTIVE GLOVES:****EYE PROTECTION:****SKIN PROTECTION:****WORK/HYGIENE PRACTICES:****OTHER EQUIPMENT:**

Always provide good general, mechanical room ventilation where this chemical/material is used.

None.

Avoid uncontrolled release to the environment.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the CEN European Standards (EU). Use a NIOSH/MSHA or European Standard (EN) approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Chemical resistant gloves are recommended.

Recommend eye protection using safety glasses, goggles, or face shield (8" minimum).

Suitable protective clothing to prevent skin contact.

Avoid breathing fumes. Avoid contact with eyes. Wash hands after handling.

Make safety shower, eyewash stations, and hand washing equipment available in the work area.

Section 9: Physical and Chemical Properties

	PRODUCT CRITERIA
APPEARANCE - COLOR:	Dark brown
PHYSICAL STATE:	Soluble liquid
ODOR:	Slightly sweet
ODOR THRESHOLD	No data available
PH	No data available
MELTING POINT/FREEZING POINT:	No data available
INITIAL BOILING POINT AND BOILING RANGE:	> 100°C
FLASH POINT:	No data available
EVAPORATION RATE:	No data available
FLAMMABILITY (Solid, gas)	Not flammable
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Not Measured
VAPOR PRESSURE	No data available
VAPOR DENSITY (AIR = 1)	No data available
RELATIVE DENSITY (@25 °C):	1.15 (9.60 lbs/gal)
SOLUBILITY (IES)	Soluble
OXIDIZING PROPERTIES	No data available
PARTITION COEFFICIENT: n-octanol/water	No data available
AUTO IGNITION TEMPERATURE	No data available
DECOMPOSITION TEMPERATURE	No data available
VISCOSITY	No data available

Section 10: Stability and Reactivity

Reactivity:**Chemical Stability:****Possibility of Hazardous Reactions:****Conditions to Avoid:****Incompatibility (Materials to avoid):**

Not reactive under normal conditions of use, storage, and transport.

Stable under recommended conditions.

Will not occur under normal temperatures and pressures.

None under recommended storage and handling conditions (see Section 7).

This product is compatible with most agricultural remedies. However, it is advisable to do a miscibility test prior to mixing with other chemicals. Do not mix concentrate directly with other herbicides or pesticides concentrates – always dilute first. Do not mix product with oxidizing materials.

Hazardous Decomposition Products:

No hazardous decomposition products are known.

Section 11: Toxicological Information

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity	LD50 (Oral/Rat)	>2000 mg/kg		Zinc Sulfate
	LD50 (Dermall/Rat)	>600 mg/kg		Zinc Sulfate
Skin Corrosion/Irritation	May cause mild irritation			Zinc Sulfate
Serious Eye Damage /	May cause serious eye damage.			Zinc Sulfate, Zinc Sulfate



Eye Irritation			Monohydrate
Respiratory or Skin Sensitization	Data not available		
Germ Cell Mutagenicity	Data not available		
Carcinogenicity	NTP	Not listed	
	IARC	Not listed	
	OSHA	Not listed	
Reproductive Toxicity	Data not available		
STOT -- Single Exposure	Data not available		
STOT -- Repeated Exposure	Data not available		
Aspiration Hazard	Data not available		

STOT = Specific Target Organ Toxicity

Section 12: Ecological Information

		Chemical Constituent
Toxicity:	Very toxic to aquatic life with long lasting effects. Do not empty into drains.	Zinc Sulfate, Zinc Sulfate Monohydrate
Persistence and degradability:	No information is available.	
Bioaccumulative potential	No information is available.	
Mobility in soil:	No information is available.	
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical assessment not required/not conducted	
Other adverse effects:	No information is available.	

Section 13: Disposal Considerations

Disposal Method: Do not reuse containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (www.agrecycling.org for locations), or puncture and dispose of in a sanitary landfill or by other procedures approved your country, state, or local authorities. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

Waste from residues/unused products: Follow the waste disposal requirements of your country, state, or local authorities.

Contaminated packaging: Contaminated packaging material should be disposed of as stated above for residues and unused product.

Rinsate: Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.

Section 14: Transport Information

DOT TRANSPORT:

Not regulated in domestic (USA ground) transportation in package sizes less than 3550 lbs (1610 kg). The information below is for shipments with package sizes equal to or exceeding this value. IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

DOT (US) UN number: 3082 Class: 9 Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (zinc sulfate)

Reportable quantity: 3550 lbs

Poison inhalation hazard: No

Environmental hazards: Yes. Special precautions for user. Read safety instructions, SDS and emergency procedures before handling.

Special provisions: 8, 146, 335, IB3, T4, TP1, TP29

Packaging exceptions: 155

Packaging non-bulk: 203

Packaging bulk: 241

DOT shipping notes: 40 CFR 172.504(f)(9). For Class 9, a Class 9 placard is not required for domestic (USA ground) transportation, however shipments with packaging exceeding the Reportable Quantity (RQ) or bulk packaging must be marked with the appropriate identification number on a Class 9 placard, an orange panel, or a white square-on-point display configuration as required. Since the Class 9 placard is not required (although it may be used) the hazardous material endorsement is also not required on a Commercial Driver's License.

SEA TRANSPORT:

IMDG

Not regulated in domestic (USA ground) transportation in package sizes Less than 3550 lbs (1610 kg). The information below is for shipments



with package sizes equal to or exceeding this value. IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

IMDG UN number: 3082 Class: 9 Packing group: III

EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (zinc sulfate)

Environmental Hazards: Yes. Special precautions for user. Read safety instructions, SDS and emergency procedures before handling.

AIR TRANSPORT:

IATA/ICAO

Not regulated in domestic (USA ground) transportation in package sizes less than 3550 lbs (1610 kg). The information below is for shipments with package sizes equal to or exceeding this value. IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

IATA UN number: 3082 Class: 9 Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (zinc sulfate)

Environmental hazards: Yes. ERG Code 9L. Special precautions for user. Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo aircraft: Allowed.

Cargo aircraft only: Allowed.

Section 15: Regulatory Information

TOXIC SUBSTANCE CONTROL ACT (TSCA) STATUS:

This product is in compliance with the rules, regulations, and orders of TSCA. All components are either listed on the TSCA inventory or are considered exempt.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: Zinc sulfate (CAS#7733-02-0)

CALIFORNIA PROPOSITION 65:

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm (Zinc sulfate (CAS#7733-02-0)).

STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Massachusetts's hazardous substance(s):

Zinc sulfate (CAS#7733-02-0)

Pennsylvania

Zinc sulfate (CAS#7733-02-0)

New Jersey

Zinc sulfate (CAS#7733-02-0)

Section 16: Other Information

Initial issue date: December 12, 2023

Final revision date: December 12, 2023

Revision Number: 0

Revision explanation: Initial version.

Information Sources: RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

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