SAFETY DATA SHEET

According to Federal Regulation 29 CFR 1910.1200(g)(2)

SECTION 1: Identification of the substance/mixture and of the company

Product name: **HORTA-SORB® LG, MD, SM**
Type of product: Product is a superabsorbent polymer

1.1 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Water absorbent for industrial applications.

1.2 Details of the supplier of the safety data sheet

Company: Horticultural Alliance LLC.
Address: 1550 66th Avenue Drive, East
Sarasota, FL 34243
United States
Telephone: 800-628-6373
Telefax: 888-386-4478
E-mail: info@horticulturalalliance.com

1.3 Emergency telephone numbers

24-hour emergency number: 800-424-9300 CHEMTREC (CNN 20412), Outside U.S. 703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Hazard symbol (s): None
Signal word: None
Hazard statement(s): None
Precautionary statement(s): None

2.3 Other hazards

The product swells in water. The product, when wet, renders surfaces extremely slippery.

SECTION 3: Composition/information on ingredients

Identification: Anionic polymeric dispersant in solution

SECTION 4: First Aid Measures

Inhalation: Move to fresh air. No hazards which require special first aid measures.

Skin contact:	Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In case of persistent eye irritation, consult a physician.
Ingestion:	Rinse mouth with water. Do NOT induce vomiting. Get medical attention.
Other information:	The product swells in water.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Spills produce slippery surfaces

Hazardous decomposition products:

Thermal decomposition may produce nitrogen oxides (NOx), carbon oxides (CO), Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

Protective measures: In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:	The product swells in water. The product when wet renders surfaces extremely slippery
Protective equipment:	Wear adequate personal protective equipment (see Section 8 Exposure Controls/ Personal Protection)
Emergency procedures	Keep people away from spill/leak

6.2 Environmental precautions As with all chemical products, do not flush into surface water.

6.3 Methods and material for containment and cleaning up

Small spills:
Do not flush with water. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.
Large spills:
Do not flush with water. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal
Residues: After cleaning, flush away traces with water.

6.4 Reference to other sections

Section 7: Handling and storage; Section 8: Exposure controls/personal protection; Section 9: Physical and chemical properties; Section 13: Disposal considerations.

SECTION 7: Handling and storage

Handling:	Avoid contact with skin and eyes. Wash hands.
Storage:	Keep in a cool, dry place (0-35 C) Freezing will affect the physical condition with damage.

7.1 Precautions for safe handling
No special precautions required. The product swells in water. The product when wet renders surfaces extremely slippery.

7.2 Conditions for safe storage, including any incompatibilities.
Keep in dry place. Keep container closed when not in use. Incompatible with strong acids and oxidizing agents.

7.3 Specific end use (s)
No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Occupational exposure limits:
None

8.2 Exposure Controls:
Appropriate engineering controls:
Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

Individual protection measures such as personal protective equipment

a) Eye/face protection:
Safety glasses with side-shields
Skin protection:
Work clothes protecting arms, legs, and body.
b) Respiratory protection:
No personal respiratory protective equipment normally required
c) Additional advice:
Handle in accordance with good industrial hygiene and safety practice
d) Hand protection:
PVC or other plastic material gloves

Environmental exposure controls:
Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties

a)	Appearance:	Granular Solid, White
b)	Odor:	None
c)	Odor Threshold:	Not applicable
d)	pH:	5-8 @ 5 g/L
e)	Melting point/freezing point:	> 150°C
f)	Initial Boiling point and boiling range:	Not Applicable
g)	Flash point:	Not Applicable
h)	Evaporation rate:	Not Applicable
i)	Flammability (solid, gas):	Not data available
j)	Upper/lower flammability or explosive Limits:	Not expected to create explosive atmospheres
k)	Vapor pressure:	Not Applicable
l)	Vapor density:	Not Applicable
m)	Relative density:	0.6 – 0.9
n)	Solubility:	Insoluble in water
o)	Partition coefficient:	-2
p)	Autoignition temperature:	Does not self-ignite (based on the chemical structure).
q)	Decomposition temperature:	> 150°C
r)	Viscosity:	Not Applicable
s)	Explosive properties:	Not expected to be explosive based on the chemical structure
t)	Oxidizing properties:	Not expected to be oxidizing based on the chemical structure

9.2 Other information
None

SECTION 10: Stability and reactivity

10.1 Reactivity
None known

10.2 Chemical stability
Stable under normal conditions

10.3 Possibility of hazardous reactions
Oxidizing agents may cause exothermic reactions

10.4 Conditions to avoid
None known

10.5 Incompatible materials
Incompatible with strong acids and oxidizing agents

10.6 Hazardous decomposition products
Thermal decomposition may produce: nitrogen oxides (NOx), carbon oxides (COx), hydrogen cyanide (Hydrocyanic acid).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on the product as supplied:

Acute oral toxicity:	LD50/oral/rat> 5000 mg/kg
Acute dermal toxicity:	LD50/dermal/rat> 5000 mg/kg
Acute inhalation toxicity:	The product is not expected to be toxic by inhalation
Skin corrosion/irritation:	Not irritating
Serious eye damage/eye irritation:	Not irritating
Respiratory/skin sensitization:	Not sensitizing
Mutagenicity:	Not mutagenic
Carcinogenicity:	Not carcinogenic
Reproductive toxicity:	Not toxic for reproduction
STOT – single exposure:	No known effects
STOT – repeated exposure:	No known effects
Aspiration hazard:	No hazards resulting from the material as supplied

SECTION 12: Ecological information

12.1 Toxicity

Information on the product as supplied:

Acute toxicity to fish:	LC50/Danio rerio/96 hours > 100 mg/L (OECD 203)
Acute toxicity to invertebrates:	EC50/Daphnia magna/48 hours > 100 mg/L (OECD 202)
Acute toxicity to algae:	IC50/Scenedesmus /72 hours > 100 mg/L (OECD 201)
Chronic toxicity to fish:	No Data available
Chronic toxicity to invertebrates:	No Data available
Toxicity to microorganisms:	No Data available
Effects on terrestrial organisms:	No known effects
Sediment toxicity:	No Data available

12.2 Persistence and degradability

Information on the product as supplied:

Degradation:	Not readily biodegradable
Hydrolysis:	Does not hydrolyze
Photolysis:	No data available

12.3 Bio accumulative potential

Information on the product as supplied:
Not bioaccumulating

Partition co-efficient (Long Pow):	-2
Bioconcentration factor (BCF):	No data available

12.4 Mobility in soil

Information on the product as supplied:
None

12.5 Other adverse effects.

None known

SECTION 13: Disposal considerations

13.1 Waste treatment methods.

Waste from residues/unused products:
Dispose in accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging:
Dispose in accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Recycling:
The product and its packaging are not suitable for recycling.

SECTION 14: Transportation information

Land transport (DOT)
Not classified
Sea transport (IMDG)
Not classified
Air transport (IATA)
Not classified

SECTION 15: Regulatory information:

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

Information on the product as supplied:

TSCA Chemical Substances Inventory:
All components of this product are either listed on the inventory or are exempt from listing.

US SARA Reporting Requirements:
SARA (Section 311/312) hazard class:
Not concerned.

RCRA status:

Not RCRA hazardous.

California Proposition 65 information

NFPA and HMIS Ratings:

NFPA:

Health:	0
Flammability:	0
Instability:	0

HMIS:

Health:	0
Flammability:	0
Physical Hazard:	0
PPE Code:	0

This data sheet contains changes from the previous version in section(s):

SECTION 2. Hazards identification, SECTION 3. Composition/information on ingredients, SECTION 4. First aid measures, SECTION 11. Toxicological information, SECTION 16. Other Information.

Key or legend to abbreviations and acronyms used in the safety data sheet.
None

This SDS was prepared in accordance with the following:

Federal Regulation 29 CFR 1910.1200

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.