

SAFETY DATA SHEET

Product Name: SoilAssist™



(832) 843-3199

plantnetics.com

REFERENCE NUMBERS: PTSA01, PTSA02, PTSA30, PTSA55, PTSA265

SDS REVISION DATE: 05/30/2025

SECTION 1. IDENTIFICATION

1.1. PRODUCT IDENTIFIER

Product Name: SoilAssist
Product Reference Number(s): PTSA01, PTSA02, PTSA30, PTSA55, PTSA265

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Intended Use: Adjuvant for plant protection products and fertilizers.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company Name and Address: Plantnetics LLC, 15814 Champion Forest Drive, #191, Spring, TX 77379 • www.plantnetics.com • (832) 843-3199

1.4. 24-HOUR EMERGENCY TELEPHONE NUMBERS

CHEMTREC (transportation and spill): (800) 424-9300
POISON CONTROL CENTER (human health): (800) 222-1222

SECTION 2. HAZARD(S) IDENTIFICATION

2.1. HAZARD CLASSIFICATION(S)

No GHS hazard classification statements.

2.2. HEALTH HAZARD STATEMENT(S)

No GHS health hazard statements.

2.3. SIGNAL WORD

No signal word required.

2.4. PICTOGRAM(S)

No pictogram required.

2.5. PREVENTION PRECAUTIONARY STATEMENT(S)

No GHS prevention statements.

2.6. RESPONSE PRECAUTIONARY STATEMENT(S)

No GHS response statements.

2.7. STORAGE PRECAUTIONARY STATEMENT(S)

No GHS storage statements.

2.8. DISPOSAL PRECAUTIONARY STATEMENT(S)

P501: Dispose of contents/container in accordance with local/national regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

According to Regulation (EC) No. 1272/2008

3.1 INGREDIENT/CHEMICAL DESIGNATION

Hydroxy propyl starch CAS Number: 9049-76-7

Potassium dihydrogen phosphate CAS Number: 7778-77-0

Geraniol CAS Number: 106-24-1

Humic acid CAS Number: 1415-93-6

Water CAS Number: 7732-18-5

SECTION 4. FIRST AID MEASURES

4.1. DESCRIPTIONS OF FIRST AID MEASURES

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Have the product container, label or safety data sheet with you when calling a poison control center or doctor or going for treatment.

Eyes: Irrigate copiously with clean fresh water for at least 5 minutes, holding the eyelids apart and seek medical attention.

Skin: Wash skin thoroughly with soap and water or use a recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion: If accidentally swallowed, obtain immediate medical attention. Keep at rest. Rinse mouth. Do NOT induce vomiting.

Inhalation: Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Overview: No adverse symptoms or effects anticipated under normal handling conditions.
No significant reaction of the human body to the product known.
Not to Medical Personnel: Symptomatic treatment.

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SECTION 5. FIRE-FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable Extinguishing Media: Alcohol resistant foam, powder, or water spray.
Non-Suitable Extinguishing Media: Do not use water jet.

5.2. SPECIFIC HAZARDS FROM BURNING SUBSTANCE

Product is non-flammable.

5.3. SPECIAL PROTECTIVE EQUIPMENT/PRECAUTIONS FOR FIREFIGHTERS

Evacuate area.
Prevent contamination from run-off of adjacent areas, streams, drinking water and sewers.
Do not flush down sewers or other drainage systems.
Exposed firefighters must wear standard protective equipment and in enclosed areas self-contained breathing apparatus.
Use water-spray to cool fire-exposed surfaces and personnel.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS/PROTECTIVE EQUIPMENT

Not classified.

6.2. EMERGENCY PROCEDURES

Keep all sources of ignition away from spill/release. In case of a major spill or spillage in a confined space, evacuate the area and check vapor levels.

6.3. METHODS AND MATERIALS FOR CONTAINMENT/CLEANUP PROCEDURES

Do not allow spills to enter drains or water courses. Flush with water into sewage or soil. Take the personal protective measures listed in Section 8. Contain and absorb spillage with non-combustible materials (e.g. sand/earth/vermiculite). Dispose of according to the Waste Regulations (see Section 13). Clean, preferably with a detergent. Do not use solvents. Do not allow spills to enter drains or water courses.

SECTION 7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Have eyewash accessible to use in handling area.

7.2. CONDITIONS FOR SAFE STORAGE

DO NOT FREEZE! Store product above 32°F and below 86°F. Keep container tightly sealed. Protect against heat and direct sunlight. Keep only in the original container in a cool, dry place away from direct sunlight and heat. Protect containers from physical damage. Do not return residues to the storage containers.

7.3. INCOMPATIBLE MATERIALS

Not known.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. EXPOSURE DATA: This product contains no ingredients with established limits for exposure under OSHA, ACGIH and/or NIOSH.

8.2. CARCINOGEN DATA: This product contains no ingredients that are suspected of being or known to be a carcinogen under OSHA, NTP or IARC.

8.3. EXPOSURE CONTROLS

Respiratory:	If workers are exposed to concentrations above the exposure limit, they must use the appropriate certified respirators.
Eyes:	Wear safety eyewear, (e.g. safety spectacles, goggles or visors) to protect against the splash of liquids.
Skin:	Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact.
Engineering Controls:	Not required.
Other Work Practices:	Handle in accordance with good industrial hygiene and safety practice. Always wash hands before meals or after work.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light Brown Liquid
Odor:	Odorless
Odor Threshold:	Not Measured
pH:	6.5 - 7.0
Specific Gravity:	1.08
Flashpoint and Method:	Not Determined
Solubility in Water:	Completely Soluble
Viscosity (cSt):	0.5 - 1.5 Pas
Conductivity:	26 ± 2.5 mS/cm
VOC%:	Not Measured
Vapor Pressure (Pa):	Not Measured
Vapor Density (air=1):	Not Measured
Density (water=1):	Not Measured
Density (liquid):	8.99 lbs/gallon
Freezing Point:	32°F / 0°C

Initial Boiling Point/Range:	212°F / 100°C
Explosive Properties:	Not an Explosion Hazard
Flammability (Solid, Gas):	No Indication of Flammability
Upper Flammability/Explosive Limits:	Not Measured
Lower Flammability/Explosive Limits:	Not Measured
Decomposition Temperature:	Not Measured
Auto-Ignition Temperature:	Not Self-Igniting
Volatility:	Not Measured
Molecular Weight:	Not Measured
Oxidizing Properties:	Not Measured
Partition Co-Efficient n-octanol/water (Log Pow):	Not Measured
Evaporation Rate (Butyl Acetate=1):	Not Measured
Surface Tension:	Not Measured
Particle Size:	Not Measured
Other:	No Other Relevant Information

SECTION 10. STABILITY AND REACTIVITY

10.1. REACTIVITY

Not reactive.

10.2. CHEMICAL STABILITY

Stable under normal ambient and anticipated conditions of use.

10.3. POSSIBLE HAZARDOUS REACTIONS

Hazardous reactions not anticipated.

10.4. CONDITIONS TO AVOID

Extended exposure to high temperatures can cause decomposition. Avoid all possible sources of ignition. Avoid prolonged exposure to extreme heat or direct sunlight. Avoid contamination. Avoid prolonged storage.

10.5. INCOMPATIBLE MATERIALS

Not known.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Not anticipated under normal conditions of use.

SECTION 11. TOXICOLOGICAL AND HEALTH EFFECTS INFORMATION

11.1. ATE (ACUTE TOXICITY ESTIMATE)

INGREDIENT(S)	ORAL LD50, mg/kg	SKIN LD50, mg/kg	INHALATION Vapour, LC50, mg/L/4hr	INHALATION Dust/Mist, LC50, mg/L/4hr	INHALATION Gas, LC50, ppm
Hydroxy propyl starch, Potassium dihydrogen phosphate, Geraniol, Water	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available

11.2. HEALTH HAZARD CLASSIFICATIONS AND HEALTH EFFECTS

Acute Toxicity (mouth):	Not Applicable	Not Applicable
Acute Toxicity (skin):	Not Applicable	Not Applicable
Acute Toxicity (inhalation):	Not Applicable	Not Applicable
Skin Corrosion/Irritation:	Not Applicable	Not Applicable
Eye Damage/Irritation:	Not Applicable	Not Applicable
Sensitization (respiratory):	Not Applicable	Not Applicable
Sensitization (skin):	Not Applicable	Not Applicable
Germ Toxicity:	Not Applicable	Not Applicable
Carcinogenicity:	Not Applicable	Not Applicable
Reproductive Toxicity:	Not Applicable	Not Applicable
Specific Target Organ Systemic Toxicity-Single Exposure:	Not Applicable	Not Applicable
Specific Target Organ Systemic Toxicity-Repeated Exposure:	Not Applicable	Not Applicable
Aspiration Hazard:	Not Applicable	Not Applicable

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SECTION 12. ECOLOGICAL INFORMATION

12.1. AQUATIC TOXICITY DATA

No adverse affects to the aquatic environment are known and expected.

12.2. PERSISTENCE AND DEGRADABILITY

The product is entirely biodegradable and non-toxic.

12.3. BIOACCUMULATION POTENTIAL

Not Applicable

12.4. MOBILITY IN SOIL

Not Applicable

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

Not Applicable

12.6. OTHER ADVERSE EFFECTS

Not Applicable

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. CONTAINER DISPOSAL/RECYCLING

Triple pressure rinse (or equivalent) during mixing and loading. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet, advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler, visit www.agrecycling.org.

13.2. PRODUCT DISPOSAL

The product is entirely water-soluble, biodegradable and non-toxic. Contents should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Dispose of contents in accordance with local and national regulations.

13.3. ENVIRONMENTAL PRECAUTIONS

Do not allow into drains or watercourses. Do not contaminate water sources by cleaning of equipment or disposal of wastewaters.

SECTION 14. TRANSPORT INFORMATION

	DOT	IMDG	ICAO/IATA	CERCLA/DOT RQ
UN/NA NUMBER:	Not Regulated	Not Regulated	Not Regulated	Not Applicable
PROPER SHIPPING NAME:	Not Regulated	Not Regulated	Not Regulated	Not Applicable
TRANSPORT HAZARD CLASS:	Not Applicable	Not Applicable	Not Applicable	Not Applicable
PACKING GROUP NUMBER:	Not Applicable	Not Applicable	Not Applicable	Not Applicable
ENVIRONMENTAL HAZARDS:	Not Applicable	Water pollution class 1 (slightly polluting substance)	See Bill of Lading	Not Applicable

SECTION 15. REGULATORY INFORMATION

REGULATORY OVERVIEW:	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
TOXIC SUBSTANCE CONTROL ACT (TSCA):	All ingredients of this product are listed on the TSCA inventory, or are not required to be listed on the TSCA inventory.
WHMIS CLASSIFICATION:	Not regulated. This product contains no endocrine disrupting chemicals.
NATIONAL FIRE PREVENTION ASSOC (NFPA):	Health Hazards = NA / Flammability = NA / Instability = NA / Special Hazards = NA
EPCRA 302-Extremely Hazardous (0.1%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
EPCRA 311/312-Chemicals and RQs (>0.1%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
EPCRA 313-Toxic Chemicals (>0.1%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
PROPOSITION 65-Carcinogens (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
PROPOSITION 65-Developmental Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
PROPOSITION 65-Female Repro Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
PROPOSITION 65-Male Repro Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
N.J. RTK SUBSTANCES (>1%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
PENN RTK SUBSTANCES (>1%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

SECTION 16. DISCLAIMER

The information in this Safety Data Sheet is provided in good faith and believed to be accurate as of the date issued. It pertains only to the product as shipped by Plantnetics. PLANTNETICS MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. It is the responsibility of the recipient and/or user of the product to study this Safety Data Sheet and to understand the information contained herein and any hazards associated with the product. Regulatory requirements are subject to change and may differ by jurisdiction. Therefore, it is the responsibility of the recipient and/or user of the product to ensure that its activities comply with all federal and state laws. Plantnetics assumes no responsibility for injury to the recipient and/or user or to any third party, or for damage to property.