

# Material Safety Data Sheet



## 01. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME</b>	<b>ZEBA FARM, NURSERY &amp; GREENHOUSE, TURF &amp; SPECIALTY, ROOT DIP, SEED COATING</b>
<b>Product Identification Number(s)</b>	107830-79-5
<b>Manufacturer/Supplier</b>	Absorbent Technologies, Inc. Beaverton, Oregon 97008
<b>MSDS Prepared by</b>	Absorbent Technologies, Inc.
<b>Chemical Name</b>	Starch-g-poly (2-propenamide-co-2-propenoic acid) potassium salt
<b>Synonym(s)</b>	957944
<b>Molecular Formula</b>	Starch (C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> ) containing grafted side chains consisting of 2-propenamide (C <sub>3</sub> H <sub>5</sub> NO) <sub>n</sub> -co-2-propenoic acid potassium salt (C <sub>3</sub> H <sub>3</sub> O <sub>2</sub> K) <sub>n</sub> copolymers
<b>Product Use</b>	Polymer
<b>OSHA Status</b>	Nonhazardous

For emergency health, safety and environmental information, call Absorbent Technologies, Inc. 877.627.9931.

For emergency transportation information, call CHEMTREC at 800.424.9300 or call ATI at 877.627.9931.

## 02. COMPOSITION INFORMATION ON INGREDIENTS

(Typical composition is given, and it may vary. A certificate of analysis can be provided).

<b>WEIGHT %</b>	<b>COMPONENT</b>	<b>CAS REGISTRY NO.</b>
88%	Starch-g-poly (2 propenamide-co-2-propenoic acid) potassium salt	107830-79-5
12%	Inerts	7732-18-5

**03. HAZARDS IDENTIFICATION**

**CAUTION!**  
POWDERED MATERIAL MAY FORM EXPLOSIVE DUST  
– AIR MIXTURES

**HMIS® Hazard Ratings:**

Health – 1, Flammability – 1, Chemical Reactivity – 0

*HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of his material, all the information contained in this MSDS must be considered.*

**04. FIRST-AID MEASURES****Inhalation**

If symptomatic, move to fresh air.  
Get medical attention if symptoms persist.

**Eyes**

Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses.  
Get medical attention if symptoms persist.

**Skin**

Wash with soap and water.  
Get medical attention if symptoms occur.

**Ingestion**

Seek medical advice.

**05. FIRE FIGHTING MEASURES****Minimum Ignition Temperature**

375°C (707°F)

**Minimum Explosive Concentration**

0.495 oz/ft

**Extinguishing Media**

Water spray, dry chemical.  
Polymer absorbs water and becomes slippery when wet.

**Special Fire-Fighting Procedures**

Wear self-contained breathing apparatus and protective clothing.

**Hazardous Combustion Products**

Carbon dioxide, carbon monoxide.

**Unusual Fire and Explosion Hazards**

Powdered material may form explosive dust-air mixtures.

**Sensitivity to Static Discharge**

Material may accumulate a static charge which could act as an ignition source.

**06. ACCIDENTAL RELEASE MEASURES**

Sweep or scoop up and remove.

**07. HANDLING AND STORAGE****Personal Precautionary Measures**

Avoid contact with molten material.

**Prevention of Fire and Explosion**

Keep from contact with oxidizing materials. Minimize dust generation and accumulation. In the United States of America, refer to NFPA® Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries."

**Storage**

Keep container closed.

**08. EXPOSURE CONTROLS/PERSONAL PROTECTION**

*Country specific exposure limits have not been established or are not applicable unless listed below.*

**Ventilation**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, mechanical generation of dusts, heating, drying, etc.

**Respiratory Protection**

If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1988.  
Respirator type: dust.

**Eye Protection**

It is a good industrial hygiene practice to minimize eye contact.

(continued)

**Skin Protection**

It is a good industrial hygiene practice to minimize skin contact.

**Recommended Decontamination Facilities**

Eye bath, washing facilities.

**09. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical Form</b>	Solid
<b>Color</b>	Tan
<b>Odor</b>	Slight to strong smell resembling Ammonia. As a hydrogel, virtually odorless.
<b>Specific Gravity</b>	< 1
<b>Solubility in Water</b>	Negligible
<b>pH</b>	6–8
<b>Flash Point</b>	Not applicable, combustible solid

**Thermal Decomposition Temperatures**

Thermal stability not tested. Low stability hazard expected at normal operating temperatures.

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable
<b>Incompatibility</b>	Material reacts with strong oxidizing agents
<b>Hazardous Polymerization</b>	Will not occur
<b>Hazardous Decomposition Products</b>	Not Applicable
<b>Conditions to Avoid</b>	None

**11. TOXICOLOGICAL INFORMATION**

Toxicity data are not available unless listed below.

**12. ECOLOGICAL INFORMATION**

This material has not been tested for environmental effects.

**13. DISPOSAL CONSIDERATIONS**

Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate.

**14. TRANSPORTATION INFORMATION****Marine Pollutant components**

None unless listed below.

<b>DOT (USA)</b>	Class not regulated
<b>ICAO Status</b>	Class not regulated
<b>IMDG Status</b>	Class not regulated

**15. REGULATORY INFORMATION****WHMIS (Canada) Status**

Noncontrolled.

**SARA313**

None, unless listed below.

**Carcinogenicity Classification**

(components present at .01% or more)

None NIP – No, IARC – No, OSHA – No.

**TSCA (US Toxic Substances Control Act)**

One or more components of this product are not listed on the TSCA inventory.

**16. OTHER INFORMATION**

Visit our website at [www.zeba.com](http://www.zeba.com) or call 1.877.627.9931

*The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers and the protection of the environment.*