

Material Safety Data Sheet



01. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	ZEB A FARM, ZEB A SP, NURSERY & GREENHOUSE, TURF & SPECIALTY, ZEB A LF, ROOT DIP, SEED COATING
Product Identification Number(s)	68025-34-3
Manufacturer/Supplier	Absorbent Technologies, Inc. Beaverton, Oregon 97008
MSDS Prepared by	Absorbent Technologies, Inc.
Chemical Name	Starch-g-poly (2-propenamide-co-2-propenoic acid) potassium salt
Synonym(s)	957944
Molecular Formula	Starch ($C_6H_{10}O_5$) containing grafted side chains consisting of 2-propenamide (C_3H_5NO) _n -co-2-propenoic acid potassium salt ($C_3H_3O_2K$) _n copolymers
Product Use	Polymer
OSHA Status	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).

WEIGHT %	COMPONENT	CAS REGISTRY NO.
88%	Starch-g-poly (2 propenamide-co-2-propenoic acid) potassium salt	68025-34-3
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 this 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

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

Thermal Decomposition Temperatures

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

10. STABILITY AND REACTIVITY

Stability	Stable
Incompatibility	Material reacts with strong oxidizing agents
Hazardous Polymerization	Will not occur
Hazardous Decomposition Products	Not Applicable
Conditions to Avoid	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.

DOT (USA)	Class not regulated
ICAO Status	Class not regulated
IMDG Status	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 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.