

Preparation Date 02-Sep-2016

Revision Date 25-July-2017

Revision Number:02

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product Identifier****Product Description** ZEBBA**Other means of Identification****Synonyms** Super Absorbent Polymer**UN-No** Not Regulated**Recommended use of the chemical and restriction on use****Recommended use** Soil Amendments**Details of the Supplier of the Safety Data Sheet****Manufacturer/Supplier Address****UPL Limited**Unit No. 5, 746/750, GIDC,
P.B.No.9, Jhagadia - 393 110
District - Bharuch, Gujrat, India
Tel: ++91-2645-226011 - 15**E-mail address** info.in@uniphos.com**Emergency Telephone Number****Company Phone Number** +91-(022)- 2646-8000
Emergency telephone number +91-2645-226011-15
Fax No. +91-2645-226017/18**2. Hazard Identification****Classification**

Not hazardous based on GHS classification criteria.

Label elements**Symbol** None**Signal word** None**Hazard Statements** None**Precautionary Statements** None**Other Information**

None Identified

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3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %
Starch-g-poly (2-propenamide-co-2-propenoic acid) potassium salt	863132-14-3	85-95

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures

First-aid measures

Eye contact	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. If eye irritation persists, get medical attention.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation occurs, get medical advice or attention.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting unless told by physician. If vomiting occurs ensure patient can breathe. If signs/symptoms continue, get medical attention.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and Effects No information available.

Indication of immediate medical attention and special treatment needed

Notes to physician Treat symptomatically and supportively.

5. Fire-fighting measures

Extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media High volume water jets

Special hazards arising from the substance or mixture

Special Hazard The material is not likely to be dust explosion hazard due to static discharges, provided the powder is processed in grounded equipment.

Hazardous combustion products Carbon oxides

Explosion data

Sensitivity to static discharge No
Minimum Ignition energy (MIE) >1000 *mJ

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit. Use standard firefighting procedures and consider the hazards of involved material.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Personal Precautions	Avoid contact with skin and eyes. Avoid dust formation. Remove all sources of ignition. Provide adequate ventilation. Wash thoroughly after handling.
Environmental precautions	Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

Methods and material for containment and cleaning up

Methods for Clean-Up	Avoid dust formation. Take up mechanically and collect in suitable container for disposal. Remove all ignition sources.
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<u>Reference to other sections</u>	Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.
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7. Handling and Storage**Precautions for safe handling**

Handling	Avoid dust formation. Avoid contact with skin and eyes. Take precautionary measures against static discharges. Provide adequate ventilation. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
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Conditions for safe storage, including any incompatibilities

Storage	Keep in a dry, cool and well-ventilated place. Protect from moisture.
Incompatibility	No materials to be specially mentioned.

8. Exposure Controls/Personal Protection

Exposure guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering controls	Ensure adequate ventilation, especially in confined areas. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
<u>Personal protective equipment</u>	
Eye/Face Protection	Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields.
Skin/Hand protection	Wear protective gloves/clothing. Socks and footwear.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Environmental exposure controls	Local authorities should be advised if significant spillage cannot be contained

General hygiene considerations

Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	White to pale brownish colored granules/powder
Physical state	Solid Granule/Powder
Odor	Slight to strong smell resembling ammonia. As a hydrogel, virtually odorless.
Color	White to pale brownish
odor threshold	No information available.

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
pH	7.0 - 7.5	
Melting point/freezing point	>430°C	
Boiling Point/Range	No information available	
Flash Point	Not applicable	
Flammability (solid, gas)	Non-flammable	
Upper/lower flammability or	No information available	
Minimum Explosive Concentration	No information available	
Bulk density	0.62 ±0.00 g/mL	
Vapor density	No information available	
Vapor pressure	No information available	
Water solubility	Insoluble	
Solubility in Other Solvents	Insoluble in solvents	
Partition coefficient: n-octanol/water	Not soluble in water or n-Octanol	
Minimum Ignition temperature test	375°C (707°F)	
Minimum Ignition energy (MEI)	>1000 mJ*	
Decomposition temperature	No decomposition up to 330°C	
Viscosity, kinematics	Not applicable	
Explosivity	No exothermic decomposition to 330°C	
Oxidizing properties	Non-oxidizing	

10. Stability and Reactivity

Reactivity

None known.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reaction

None under normal processing.

Conditions to avoid

Keep away from open flames, hot surfaces and source of ignition.

Incompatible Materials

No materials to be specially mentioned.

Hazardous decomposition products

Carbon Oxides

11. Toxicological Information

Information on Toxicological Effects

Local effect

LD50/Oral = >2000 mg/kg

LD50/Dermal = >2000 mg/kg

LC50/Inhalation = >2.698 (Maximum achievable concentration - No mortality)

Inhalation	Based on available data, the classification criteria are not met.
Eye contact	Non-irritant
Skin contact	Non-irritant
Ingestion	Based on available data, the classification criteria are not met.

Chronic toxicity

Skin Corrosion/Irritation	Non-irritant
Eye damage/irritation	Non-irritant
sensitization	Based on available data, the classification criteria are not met.
Mutagenic effects	Based on available data, the classification criteria are not met.
Carcinogenic effects	There are no known carcinogenic chemicals in this product.
Reproductive effects	Based on available data, the classification criteria are not met.
STOT - Single Exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

12. Ecological Information

Ecotoxicity

No information available.

Persistence and Degradability

Product is primary inherent biodegradable.

Bioaccumulative Potential

Does not bioaccumulate.

Other Adverse Effects

No information available.

13. Disposal Considerations

Waste Treatment Methods

Waste Disposal Method	Dispose of in accordance with all applicable federal, state, and local laws and regulations.
Contaminated packaging	Discharge, treatment, or disposal may be subject to national, state, or local laws. Empty containers should be taken for local recycling, recovery or waste disposal.

14. Transport Information

DOT

NOT REGULATED

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NOT REGULATED

IMDG

NOT REGULATED

15. Regulatory Information

International Inventories

USINV	-
TSCA	Complies
DSL/NDL	-
EINECS/ELINCS	-
ENCS	-
China	-
KECL	-
PICCS	-
AICS	-

- : Not listed/Determines

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances

16. Other Information

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End of Safety Data Sheet