

SAFETY DATA SHEET

Revision Date: 4/1/2019

Super-Absorbent Polymer | Z-Max

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1. Identification of the substance/mixture and of the company

1.1. Product identifier **Super-Absorbent Polymer | Z-Max**

Chemical Name 2-Propenoic acid homopolymer,
sodium salt (SAP)

CAS-No. 9003-04-7

1.2. Recommended use of the chemical and restrictions on use

Recommended use Industrial Use

Non-recommended use(s) : None known.

1.3. Details of the supplier of the safety data sheet

Company **ZorbsMORE**
1525 Western Ave
Albany, NY 12203
Telephone 833-349-6727
E-mail info@zorbsmore.com

1.4. Emergency telephone number

24 HOUR Emergency #: **(800) 424-9300 CHEMTREC**

2. Hazards identification

2.1. Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2. Label elements

Not a hazardous substance or mixture.

Other hazards

None known

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3. Composition/information on ingredients

3.1. Substances

Classification according to Regulation 29CFR 1910.1200

| Chemical Name | NJ Trade secrets CAS-No. | Concentration | Classification |
|--|-----------------------------|---------------|----------------|
| 2-Propenoic acid, homopolymer. sodium salt | - 9003-04-7 | > 99 % | |

3.2. Mixtures

4. First aid measures

4.1. Description of first aid measures

| | |
|----------------|---|
| General advice | : Remove soiled or soaked clothing immediately |
| Inhalation | Ensure supply of fresh air. In the event of symptoms seek medical advice. |
| Skin contact | In case of contact with skin wash off with soap and water. In the event of symptoms seek medical advice. |
| Eye contact | In case of contact with eyes, rinse thoroughly with plenty of water. If symptoms persist, seek medical advice. |
| ingestion | Thoroughly clean the mouth with water In the event of symptoms seek medical advice. |

4.2. Most important symptoms and effects, both acute and delayed

Symptoms : No special hints

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media : Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire, the following can be released:
- carbon dioxide, carbon monoxide

5.3. Advice for firefighters

Do not inhale explosion and/or combustion gases
Use self-contained breathing apparatus

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Forms slippery surfaces with water.
Use personal protective equipment.

6.2. Environmental precautions

Do not allow to enter drains or waterways

6.3. Methods and material for containment and cleaning up

Pick up mechanically
Dispose of absorbed material in accordance with the regulations.

7. Handling and storage**7.1. Precautions for safe handling**

| | |
|-----------------------------|---|
| Advice on safe handling | Ensure adequate ventilation. |
| Hygiene measures | Wash hands before breaks and after work. Do not eat, drink or smoke when working. Remove soiled or soaked clothing immediately. |
| General protective measures | : Do not inhale dust/fumes/aerosols. Avoid contact with eyes and skin |

7.2. Conditions for safe storage, including any incompatibilities**Prevention of fire and explosion**

Information : No special measures required.

Storage

| | |
|---|--------------------|
| Information | none |
| Further information on storage conditions | Keep container dry |

8. Exposure controls/personal protection**8.1. Control parameters**

Contains no substances with occupational exposure limit values (US)

8.2. Exposure controls**Engineering controls****Personal protective equipment**

Eye protection : This product is not classified as a hazardous substance. Any necessity for eye protection must be determined within the scope of a risk assessment.

Hand protection : Glove material: protective gloves

Body Protection : protective clothing

Respiratory protection : in case of formation of vapors/dusts: Short term: filter apparatus, Filter P1

9. Physical and chemical properties

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9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | solid |
| Form | granular |
| Color | white |
| Odor | odorless |
| Odor Threshold | no data available |
| pH | approx. 6 1.0 g/1 Remarks: in 0.9% NaCl-Solution |
| Melting point | not applicable |
| Boiling point | not applicable |
| Flashpoint | not applicable |
| Evaporation rate | no data available |
| Flammability | : no data available |
| Upper Explosion/Ignition Limit | not measured |
| Lower explosion limit | not measured |
| Vapor pressure | < 10 hPa (20 °C) |
| Relative vapor density | no data available |
| Relative density | no data available |
| Solubility | not measured |
| Water solubility | insoluble |
| Partition coefficient (n-octanol/water) | no data available |
| Auto ignition temperature | not measured |
| Thermal decomposition | not measured |
| Viscosity, kinematic | not applicable |
| Viscosity, dynamic | not applicable |

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9.2. Other information

Density approx. 0.7 g/cm³

Bulk density approx. 720 kg/m³

Other information none

10. Stability and reactivity

10.1. Reactivity

see section "Possibility of hazardous reactions"

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Risk of dust explosions.

10.4. Conditions to avoid

> 200

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None with proper storage and handling.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity(oral) no data available

Acute toxicity (inhalation) no data available

Acute toxicity (dermal) no data available

Irritation/corrosion of the skin : Species: rabbit
Result: non-irritant
Method: OECD404

Serious eye damage/ eye irritation Species: rabbit
Result: Mild eye irritation
Method: OECD405

Respiratory/skin sensitization : Species: Guinea pig
Result: non-sensitizing
Method: OECD406

Repeated dose toxicity no data available

Genotoxicity invitro Result: not mutagenic
Method: mouse lymphoma test
Remarks: not mutagenic in *in vivo* and *in vitro* tests

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US. National Toxicology Program (NTP) Report on Carcinogens

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

US. IARC Monographs on Occupational Exposures to Chemical Agents

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

US. ACGIH Threshold Limit Values

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

| | |
|--|---|
| Reprotoxicity / Fertility | not applicable |
| Reprotoxicity/Development/Teratogenicity | not applicable |
| Specific Target Organ Toxicity-Single exposure | no data available |
| Specific Target Organ Toxicity - Repeated exposure | no data available |
| Aspiration hazard | : No aspiration toxicity classification |
| Other information | Proper use provided, no adverse health effects have been observed or have been come to our knowledge. |

12. Ecological information

Ecotoxicology Assessment

Acute aquatic toxicity no data available

Chronic aquatic toxicity no data available

12.1. Toxicity

Aquatic toxicity, fish
Species: *Leuciscus idus*
Exposure duration: 96 h
LC50: > 5,500mg/l
Method: OECD203

Species: *Dania rerio*
Exposure duration: 96 h
LC50: > 4,000mg/l
Method: OECD 203

Aquatic toxicity, invertebrates no data available

Aquatic toxicity, algae/aquatic plants : no data available

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Toxicity in microorganisms : Species: *Pseudomonas putida*
Exposure duration: 24 h
EC50: > 6,000mg/l

chronic toxicity in fish no data available

Chronic toxicity in aquatic Invertebrates no data available

Toxicity in organisms which live in the soil no data available

12.2. Persistence and degradability

Photodegradation : no data available

Biological degradability no data available

12.3. Bioaccumulative potential

Bioaccumulation : no data available

12.4. Mobility in soil

Environmental distribution no data available

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment : no data available

12.6. Other adverse effects

General Information The product is considered to be a weak water pollutant (German law).
Do not allow to enter soil, waterways or wastewater canal.

13. Disposal considerations

13.1. Waste treatment methods

Product : In accordance with local authority regulations.

Contaminated packaging : If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

14. Transport information

Not dangerous according to transport regulations.

14.1 UN number:

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

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- 14.4 Packing group:
14.5 Environmental hazards:
14.6 Special precautions for user: No

15. Regulatory information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the (M)SDS contains all information required by the Controlled Products Regulation

Canada : WHMIS CLASSIFICATION
Not Rated
This product does not contain component(s) on the WHMIS Ingredient Disclosure List.

US regulations:

SARA Title No SARA Hazards
111Section 311/312
Hazard Categories

Other regulations none

State Right to Know SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title 111, Section 302.

ZUSPA_RTK: No components subject to "Right-To-Know" legislation in the following States:

ZUSMA_RTK: No components subject to "Right-To-Know" legislation in the following States:

ZUSNJ_RTK: No components subject to "Right-To-Know" legislation in the following States:

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

HMIS Ratings Health: 1
Flammability: 0
Reactivity: 0
Personal Protection: X

Notification status

TSCA(USA) listed/registered or exempted
DSL(CDN) listed/registered or exempted

16. Other information

List of references

Other information : Comply with national laws regulating employee instruction.

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Legend

| | |
|------------------|--|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| AON | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADNR | European agreement concerning the international carriage of dangerous goods by inland waterways(ADN) |
| ASTM | American Society for Testing and Materials |
| ATP | Adaptation to Technical Progress |
| BCF | Bioconcentration factor |
| BetrSichV | German Ordinance on Industrial Safety and Health |
| c.c. | closed cup |
| CAS | Chemical Abstract Services |
| CESIO | European Committee of Organic Surfactants and their Intermediates |
| ChemG | German Chemicals Act |
| CMR | Carcinogenic-mutagenic-toxic for reproduction |
| DIN | German Institute for Standardization |
| DMEL | Derived minimum effect level |
| DNEL | Derived no effect level |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EC50 | half maximal effective concentration |
| GefStoffV | German Ordinance on Hazardous Substances |
| GGVSEB | German ordinance for road, rail and inland waterway transportation of dangerous goods |
| GGVSee | German ordinance for sea transportation of dangerous goods |
| GLP | Good Laboratory Practice |
| GMO | Genetic Modified Organism |
| IATA | International Air Transport Association |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| ISO | International Organization For Standardization |
| LOAEL | Lowest observed adverse effect level |
| LOEL | Lowest observed effect level No |
| NOAEL | observed adverse effect level no |
| NOEC | observed effect concentration no |
| NOEL | observed effect level |
| o. c. | Open cup |
| OECD | Organization for Economic Cooperation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent, bio accumulative, toxic |
| PEC | Predicted effect concentration |
| PNEC | predicted no effect concentration |
| REACH | REACH registration |
| RID | Convention concerning International Carriage by Rail |
| STOT | Specific Target Organ Toxicity |
| SVHC | Substances of Very High Concern |
| TA | Technical Instructions |
| TPR | Third Party Representative (Art.4) |
| TRGS | Technical Rules for Hazardous Substances |
| VCI | German chemical industry association |
| vPvB | Very persistent, very bio accumulative |
| voe | volatile organic compounds |
| VvVws | German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes |
| WGK | Water Hazard Class |
| WHO | WorldHealthOrganization |

< End of Safety Data Sheet >