

MSDS # :	D-001
Revision :	NA
Execution :	Oct 1 2009

## Material Safety Data Sheet

### Superabsorbent Polymer SAP

#### Section 1 Chemical Product and Company Identification

**Product:** Superabsorbent Polymer

**Chemical name:** Sodium polycrylate, cross-linked;  
2-propenoic acid, homopolymer, sodium salt

Acrylic acid-sodium acrylate polymer

Acrylic acid, polymer with sodium acrylate

**Molecular formula:**  $(C_3H_4O_2 \cdot C_3H_3O_2 \cdot Na)_x$

#### Company information

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#### Section 2 Composition, Information on ingredients

Ingredient Name	CAS number	Content (wt%)
Sodium Polyacrylate, cross-linked	9003-04-7	95 min.
Water	7732-18-5	5.0 max.

#### Section 3 Hazardous Identification

White granular powder, odorless

No particular hazards known

(Substance not considered hazardous, however, not all aspects of this substance have been thoroughly investigated)

#### Section 4 First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid

Inhalation: Remove to fresh air at once, If breathing has stopped give artificial respiration immediately

Eye contact: Immediately flush with fresh water for 15 minutes

Skin contact: Wash continuously with fresh water for 15 minutes

Ingestions: Give large quantities of water. Call a physician or poison control at once

#### Section 5 First Fighting Measures

Non flammable solid

Flash point Not Applicable

Autoignition temperature Not Applicable

Lower explosive limit Not Applicable

Upper explosive limit Not Applicable

Spontaneous combustion point Not Applicable

Extinguishing media Carbon dioxide, dry chemical, foam, in reference to a water spray

Special fire fighting procedures Water may create a slip hazard with product. Use self-contained breathing apparatus and full protective equipment

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## Section 6 Accidental release Measures

Environmental precautions: Prevent from spilling into waterways, sewers.

Personal precautions: Restrict unprotected personnel from area. Sweep up or vacuum in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Section 8 and 13 for further information

## Section 7 Handling and Storage

Handle bags in a manner that should ensure minimal generation of dusts. Do not breathe dust, which may be generated accidentally. Follow safe work procedures and wear the appropriate personal protective equipment specified in Section 8. The workers must be instructed and trained in the safe work procedures.

Do not rely on sight to determine if dust is in the air. If dust cannot be kept below permissible limits, wear a high efficiency respirator with a N95 rating or better.

Store in a dry environment away from incompatible material such as Hydrofluoric acid(HF)

## Section 8 Exposure Controls, personal protection

Engineering controls such as an enclosure or local exhaust ventilation with dust collection must be used to maintain airborne contaminations levels below the exposure limits, where practicable.

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical -resistant apron. Appropriate respiratory protection is necessary if an application causes dusting

## Section 9 Physical and Chemical Properties

Physical state	White odorless powder	Vapor pressure	Not applicable
Solubility	Insoluble.however swells in water	Vapor density	Not applicable
Formula	(C <sub>3</sub> H <sub>4</sub> O <sub>2</sub> ·C <sub>3</sub> H <sub>3</sub> O <sub>2</sub> ·Na) <sub>x</sub>	Bulk density	0.60-0.70
Odor	None	Viscosity	Not applicable
pH	5.6-6.7	Explosiveness	Not applicable
Boiling point	Not applicable	Oxidation	Not applicable
Melting point	Not applicable	Coefficient of water/oil	Not applicable
Freezing point	Not applicable	Evaporation rate	Not applicable

## Section 10 Stability and Reactivity

Stable under normal temperature and pressure

Avoid contact with strong oxidizing agents

Polymerization to be not occur

Shelf life to be Good if kept dry

## Section 11 Toxicological Information

Acute effects: Irritating dust	ORL-RAT LD50: >5 gm/kg
Chronic effects: N.A	IHL-RAT LC50: N.A
Cytotoxicity: Non-toxic	SKN-RBT LD50: >2 gm/kg
Target organs: N.A	Sensitization: N.A

★N.A = not available. Not all health aspects of this substance have been fully investigated

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## Section 12 Ecological Information

No data available (Environmental Impact Rating/Acute Aquatic Toxicity/Degradability)

This substance is chemically inert in the environment, therefore no environmental impact for uncontaminated products is expected. In the environment this substance had no soil mobility, aquatic mobility. No bioaccumulation will occur

## Section 13 Disposal Considerations

This material may be disposed of at a landfill, if uncontaminated. For contaminated absorbent, consult with all applicable regulations for the contaminant prior to disposal. Store material for disposal as indicated in Storage Conditions

## Section 14 Transport Information

Shipping Name: Not regulated

Hazard Class: Not Applicable

UN Number: Not Applicable

No Classification currently assigned (IATA/IMO/DOT)

## Section 15 Regulatory Information

TSCA(Toxic Substance Control Act): Listed

CEPA, Domestic Substances List: Listed

Others: No

## Section 16 Other Information

Consult your copy of the Yixing Danson Science and Technology Co Ltd Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet(MSDS) is for guidance and is based upon information and tests believed to be reliable. Yixing Danson Science and Technology Co Ltd makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Yixing Danson Science and Technology Co Ltd assumes no legal responsibility for use or reliance upon this data.

**Disclaimer:** This MSDS summarized our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace, including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Yixing Danson Science and Technology Co Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.