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## MATERIAL SAFETY DATA SHEET

Product name: super absorbent polymer (SAP)

**Revision date:** 2012.01.10 **Supersedes:** 2014.01.10

**Section 1.Identification** of the substance Commodity name: SAP (super absorbent polymer)

Molecular formula: (C3H3NaO2)n

Grade: KW-S, KW-B1,KW-B2, KW-A1,KW-H50,KW-H60,KW-K21. Chemical name: Polyacrylic acid sodium salt, sodium polyacrylate

Content: >90% CAS No. 9003-04-7

# Emergency telephone number: CHEMTREC:+86-371-65336567

Section 2. Composition / information on ingredients

(Not Specifications)

### **Component Information/Information on Non-Hazadous Components**

The components of this product are not regulated as hazardous. However, the potential for respiratory tract irritation as a result of inhalation of this material as a respirable dust is recognized. See sections below for regulatory information.

### Section 3. Hazards identification

### **Emergency overview:**

Sodium polyacrylate is a white, granular, odorless polymer that yields a gel-like material with the addition of water. It is insoluble in water and caused extremely slippery conditions when wet. Although not regulated as a hazardous material, the respirable dust is potential respiratory tract irritant. An eight-hour exposure limit of 0.05 mg/m3 is recommended.

#### Potential Health Effects: eyes

Dust may cause burning, drying, itching, and other discomfort, resulting in reddening of the eyes.

### **Potential Health Effects: skins**

Exposure to the dust, such as in manufacturing, may aggravate existing skins conditions due to drying effect.

### **Potential Health Effects: ingestion**

Although not a likely route of entry, tests have shown that polyacrylate absorbents are non-toxic if ingested. However, as in any instance of non-food consumption, seek medical attention in the event of any adverse symptoms.

#### Potential Health Effects: inhalation

Exposure to respirable dust may cause respiratory tract and lung irritation and may aggravate existing respiratory conditions.

### Section 4. First aid measures

### First aid: eyes

Immediately flush with plenty of water .Remove particles remaining under the eyelids. Get medical attention if irritation persists.

### First aid: skin

Remove polyacrylate absorbent dust from skin with soap and water.

#### First aid: ingestion

Non-toxic by ingestion. However, if adverse symptoms appear, seek medical attention.

#### First aid: inhalation

If inhaled, move to source of fresh air. Seek medial attention if symptoms persist. medical attention immediately.

### Section 5. Fire - fighting measures

#### General fire hazards:

No recognized fire hazards associated with the finished product.

### Fire and explosive properties:

Flammability classification: None

Flash point:NA

Flammable limits -upper: NE

--lower: NE

### Extinguish media:

Dry chemical, foam, carbon dioxide, and water fog. Extremely slippery conditions are created if spilled product comes in contact with water.

#### Fire fighting instructions:

Firefighters should wear full protective clothing including self-contained breathing apparatus.

### Section 6. Accidental release measures

### **Containment procedures:**

Sweep or vacuum material when possible and shovel into a waste container.

#### Clean up procedures:

Use caution after contact of product with water, as extremely slippery conditions will result. Residuals maybe flushed with water into the drain for normal wastewater treatment. This is a non-hazardous waste suitable for disposal in an approved solid waste landfill.

### Section 7. Handling and storage

### Handling:

Handle as an eye and respiratory tract irritant

### Storage:

Store in a dry, closed container

### Section 8. Exposure controls / personal protection

### **Exposure Guideline:**

### **Engineering controls:**

Providing local exhaust ventilation to maintain worker exposure to less than 0.05mg/m3 over an eight-hour period.

### Personal protective equipment:

### Personal protective equipments: eyes/face

Wear safety glasses with side shields or goggles

### Personal protective equipments: skin

Use impervious gloves when handling the product in the manufacturing environment.

### Personal protective equipments: respiratory

Wear respirator with a high efficiency filter is particulate concentration in the work area exceeds 0.05g/m3 over an eight hour time period.

### Personal protective equipments: general

Obey reasonable safety precautions and practice good housekeeping.

Wash thoroughly after handling.

### Section 9. Physical and chemical properties

Appearance/Odor: White granular powder, no odor Specific gravity (bulk density): 0.62-0.74g/ml

Melting point: 330°Cmin.

Solubility in water: swell in water
Auto ignition temperature: 400°Cmin
Section 10.Stability and reactivity

#### Stability:

This material is chemically stable under normal and anticipated storage and handling conditions.

### Conditions to avoid:

Store protected from moisture, keep away from heat and sources of ignition.

#### Hazardous decomposition products:

Decomposition above 200°C

### Hazardous polymerization:

Will not occur

### Section 11. Toxicological information

### Acute toxicity:

Rat oral LD50: 40000mg/kg min.

### Section 12. Ecological information

### A: General Product Information

Composted polyacrylate absorbents are non-toxic to aquatic or terrestrial organisms at predicted exposure levels.

### **B: Component Analysis - Aquatic Toxicity**

No information available.

#### **Environmental Fate**

Polyacrylate absorbents are relatively inert in aerobic and anaerobic conditions. They are immobile in landfills and soil systems (> 90% retention), with the mobile fraction showing biodegradability. They are also compatible with incineration of municipal solid waste. Incidental down-the-drain disposal of small quantities of polyacrylic absorbents will not affect the performance of wastewater treatment systems.

### Section 13. Disposal considerations

### **US EPA Waste Number & Descriptions**

### **A: General Product Information**

This product is a non-hazardous waste material suitable for approved sold waste landfills.

#### **B: Component Waste Numbers**

No EPA Waste Numbers are applicable for this product's components.

### **Disposal Instructions**

Dispose of in accordance with Local, State, and Federal Regulations.

### **Section 14. Transportation information**

### **International Transportation Regulations**

This product is not transport regulated. It's suitable for all trasnport mode.

### Section 15. Regulatory information

### **US Federal Regulations**

#### A: General Product Information

This product is not federally regulated as a hazardous material.

### **B: Clean Air Act**

No information is available.

#### C: Component Analysis

No information available.

### D: Food and Drug Administration

No information available.

### **State Regulations**

#### A: General Product Information

This product is not regulated by any state as a hazardous material.

### B. Component Analysis - State

None of this product's components are listed on the state lists from CA, FL, MA, NJ, or PA.

### Section 16. Regulatory information, continued

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