

MATERIAL SAFETY DATA SHEET

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PRODUCT: **Water Jelly Crystals (Trade Name)**

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01- IDENTIFICATION OF THE PRODUCT/COMPANY

PRODUCT NAME: Superabsorbent Crystals – Superabsorbent polyacrylamide  
SUPPLIER: Steve Spangler Inc. 4400 South Federal Blvd. Englewood, Colorado 80110  
303-798-2778  
Emergency Contact: Poison Control (800) 222-1222

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02- COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME: Cross-linked polyacrylamide copolymer  
CAS No.

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03- HAZARDS IDENTIFICATION

The product when wet renders surfaces extremely slippery.  
The product swells in water.

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04- FIRST AID MEASURES

SKIN CONTACTS: No hazards which require special first aid measures.  
EYE CONTACT: Rinse thoroughly with plenty of water, also under eyelids.  
In case of persistent eye irritation, consult a physician.  
INHALATION: No hazards which require special first aid measures.  
INGESTION: The product is not considered toxic based on studies on laboratory animals.

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05- FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Water, water spray, foam, CO2, dry powder  
SPECIAL PRECAUTIONS: The product swells in water. The product when wet  
renders surfaces extremely slippery.

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06- ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION: None required.  
ENVIRONMENTAL PRECAUTIONS: Do not contaminate water.  
METHODS FOR CLEANING UP: Clean up promptly by scoop or vacuum. Keep in  
suitable and closed containers for disposal. After  
cleaning, flush away traces with water.

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## Superabsorbent Crystals

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### 07 - HANDLING AND STORAGE

**HANDLING PRECAUTIONS:** Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands.

**STORAGE CONDITIONS:** Keep in a dry, cool place (0-35C)

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### 08- EXPOSURE CONTROLS/ PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

**PERSONAL PROTECTION EQUIPMENT:**

**Respiratory protection:** Dust safety masks are recommended where concentration of total dust is more than 10mg/m<sup>3</sup>.

**Hand protection:** Gloves are recommended.

**Eye protection:** Safety glasses with side-shields. Do not wear contact lenses.

**Skin protection:** No special protective clothing required.

**Hygiene Measures:** Wash hands before breaks. Handle in accordance with good industrial hygiene and safety practice.

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### 09- PHYSICAL AND CHEMICAL PROPERTIES

**FORM:** Granular solid

**COLOR:** White

**ODOR:** None

**MELTING POINT:** n/a

**FLASH POINT:** n/a

**AUTOIGNITION POINT:** n/a

**WATER SOLUBILITY:** Insoluble

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### 10- STABILITY AND REACTIVITY

**STABILITY:** Product is stable. No hazardous polymerization will occur.

**CONDITIONS TO AVOID:** No special precautions required.  
The product swells in water.

**HAZARDOUS DECOMPOSITION:** Thermal decomposition may produce: hydrogen cyanide (hydrocyanic acid), nitrogen oxides (Nox), carbon oxides.

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### 11 - TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY

-- ORAL: Not toxic: LD50/oral/rat > 5000 mg/kg

-- DERMAL: Not toxic: LD50/oral/rat > 2000 mg/kg

#### IRRITATION

-- SKIN: Not irritating

-- EYES: Moderate eye irritation due to effects all powders have on conjunctivae.

Sensitization: Not sensitizing.

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### 12- ECOLOGICAL INFORMATION

Ecotoxicity: Ecological injuries are not known or expected under normal use. Aquatic toxicity is unlikely due to low solubility.

Persistence/degradability: Not readily biodegradable, <10% after 28 days.

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### 13- DISPOSAL CONSIDERATIONS

Waste from residues/unused products: In accordance with federal, state and local regulations.

Contaminated packaging: Can be landfilled, when in compliance with local regulations.

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### 14- TRANSPORT INFORMATION

Not regulated by DOT

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### 15- REGULATORY INFORMATION

All components of this product are on the TSCA and DSL inventories.

RCRA status: Not a hazardous waste.

Hazardous waste number: n/a

Reportable (40 CFR 302) n/a

Threshold planning qty. (40 CFR 335) n/a

California Proposition 65 Info. The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains a chemical(s) known to the State of California to cause cancer: acrylamide.

Regulatory information regarding the use of this substance in a given country is the responsibility of the user. The information relates to the specific material(s) listed. It may not be valid for the material(s) if used in combination with other materials or in any process. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use.