MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification

Product Name: Water retaining Crystal

Company Name: Guangzhou Yourun Chemical CO.,LTD.

Emergency Tel: (86)020-22130563

E-mail: gzyrhg@163.com

Add: Tianhe,Guangzhou, Guangdong, CHINA

Post Code: 510000

MSDS No.: 06002

Effective Date: Jan. 8, 2016

2. Composition/Information on Ingredients

Product Name: Water retaining Crystal

Main Component:: Crosslinked potassium acrylate/acrylamide copolymer

CAS No.: 31212-13-2

3. Hazards Identification

Emergency Overview

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

Potential Health Effects: Eyes

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

Potential Health Effects: Skin

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

Potential Health Effects: Ingestion

Although not a likely route of entry, tests have shown that Water retaining Crystal 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. **HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0**

Hazard Scale: 0 = Minimal 1= Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic Hazard

4. First Aid Measures

First Aid: Eyes

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

First Aid: Skin

Remove Water retaining Crystal dust from skin using 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 medical attention if symptoms persist.

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	Flash Point Method
Flammable Limits - Upper	NE	
Lower	NE	

Hazardous Combustion Products

None known.

Extinguishing 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.

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 - Severe * = Chronic Hazard

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.

Evacuation Procedures

None required.

Special Procedures

Avoid respirable dust inhalation during clean up. Wear appropriate respirator.

7. Handling and Storage

Safe Handling Advice Prevent inhalation of powder Prevent contact with eye. Non-edible Keep the working area ventilated, and prevent producing powder.

Storage Requirements: Store in shady, dry. and ventilated place. Pay attention to moisture proof.

8. Exposure Control and Personal Protection

Exposure Guidelines

A: General Product Information

This product is not regulated as a hazardous material. However, the manufacturer recognizes the potential for respiratory tract irritation and recommends an eight-hour exposure limit of 0.05 mg/m^3.

B: Component Exposure Limits

No information available.

Engineering Controls

Provide local exhaust ventilation to maintain worker exposure to less than 0.05 mg/m^3 over an eight-hour period.

PERSOAL 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 0.05 mg/m^3 over an eight hour time period.

Personal Protective Equipments: General

Obey reasonable safety precautions and practice good housekeeping. Wash thoroughly after handling.

9. Physical and Chemical Properties

Appearance and Physical State: Irregular white granule powder, no smell.

PH Value: 6.5-8.5 (at 1.0g/L distilled water)

Melting Point: Not available.

Boiling Point: Not available.

Bulk Density: 0.6~0.9g/cm^3 (for reference only)

Coefficient of water/oil distribution: Not available.

Flash Point: Not available.

Fire Temperature: Not available.

Explosion Upper Limit: Not available.

Explosion Lower Limit: Not available.

Resolvability: Basically not resolve in water, only expand in water.

10. Stability and Reactivity

Stability: Stable in normal temperature and pressure.

Incompatibility (Material to Avoid): Not available.

Conditions to Avoid: Decomposition may occur at high temperature surpass 200"C.

Polymerization Hazards: Will not polymerize.

Decomposition Products: Carbon dioxide, water.

11. Toxicological Information

Skin Irritation Test shows: No acute skin irritation to New Zealand rabbits.

Vagina Mucous Membrane Irritation Test shows: No vagina mucous membrane irritation to female SD rats.

Corrosiveness: None

Acute oral toxicity LD50 rat >5000mg/kg bw

Symptoms of exposure: Dust may cause eye, nasal, or bronchial irritation.

12 .Ecological Information

General Product Information: Composted Water retaining Crystal are non-toxic to aquatic organisms at predicted exposure levels.

Environmental Fate: Water retaining Crystals 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 will not affect the performance of wastewater treatment systems.

13. Disposal Consideration

Disposal Characteristics: Normal solid trash.

14. Transport Information

Disposal Measures and Special Attentions: According to national and local applicable regulations.

15. Regulatory Information

Not listed.

16. Other Information

Tabulation Date: Jan.8,2016

Tabulation Department: Guangzhou Yourun Chemical CO.,LTD.

Data Verification Company: Guangzhou Yourun Chemical CO.,LTD.