

Supplier: WaterCrystals.Com  
c/o Tandem Marketing Corporation  
4345 Beverly Street, Suite G  
Colorado Springs, CO 80918-5916

# Water Crystals™

Effective Date: 12/19/02

Material Safety Data Sheet

MSDS No: 15113

## SECTION 1. PRODUCT IDENTIFICATION

**Trade Name:** Water Crystals

**Chemical Family:** Cross-linked acrylic copolymer  
Cross-linked acrylic copolymer

Health 1  
Flammability 1  
Reactivity 0  
Protective Equipment X

## SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

OSHA CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS				CARCINOGEN STATUS			
		ACGIH		OSHA		MFR	IARC	NTP	OSHA
		TWA	STEL	PEL	STEL				
25085-02-3	COPOLYMER OF ACRYLYMIDE SODIUM ACRYLATE	NE	NE	NE	NE	NE	NR	NR	NR

NE = Not Established NR = Not Reviewed

## SECTION 3. HAZARDS IDENTIFICATION

### Emergency Overview:

**Description:** White, free flowing powder with little or no odor

**Statement of Hazards:** NA (not a health hazard as defined by OSHA)

**Precautionary Measures:** Follow good manufacturing practices and avoid exposure to product.

**Primary Route(s) of Entry:** Inhalation

**Signs and Symptoms of Exposure:** Eye contact may produce slight irritation and/or redness. Inhaled dust may cause some respiratory irritation.

**Carcinogenicity:** Not listed as a carcinogen by IARC< NTP< OSHA or ACGIH

**Target Organ(s):** NA

## SECTION 4. FIRST AID MEASURES

**Ingestion:** Do not give an emetic unless directed by a physician. Never give anything by mouth to an unconscious person.

**Skin:** Remove contaminated clothing and launder before reuse. Wash affected area with soap and water.

**Inhalation:** Remove to fresh air.

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Call physician.

**SECTION 5. FIRE FIGHTING MEASURES**

**Flash point:** Not Applicable  
**Autoignition:** Not Evaluated

**Sensitivity to Mechanical Impact:** None

**Sensitivity to Static Discharge:** Dust in sufficient concentration may result in an explosive mixture in air.

**Fire Fighting Instructions:** Combustion by-products include carbon monoxide and carbon dioxide. Wetted product presents a slip hazard.

**Fire Extinguishing Media:** Carbon dioxide, dry chemical or foam.

**Fire Fighting Equipment:** No special procedures. However, wetted product presents a slip hazard. Pedestrian and vehicular traffic must proceed with caution where wet product may exist.

**Fire and Explosion Hazards:** Dust in sufficient concentration may result in an explosive mixture in air. Handle to minimize dusting, and eliminate open flame and other sources of ignition.

**Extinguishing Media to Avoid:** Water may create a slip hazard with product.

**Combustibility:** May burn or smolder.

**Dust Explosivity:** Dust in sufficient concentration may result in an explosive mixture in air.

**Emergency Response Guidebook Information:** No ERG # indicated. Handle as a combustible material.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Accidental Release Measures:** Product becomes slippery and difficult to handle when wet; spills are best handled while still dry. Sweep up and collect dry product. Absorb wet product with vermiculite or other inert material. Then, water wash area to waste treatment to eliminate slip hazard.

**SECTION 7. HANDLING AND STORAGE**

**Shelf Life:** 48 months

**Precautions:** Follow good manufacturing practices and avoid unnecessary exposure to product.

**Other Handling Information:** Good personal hygiene practices can reduce potential exposure. Wash with soap and water following any contact with this product, as well as before breaks and meals. Shower and change clothing at end of work shift. If clothing becomes contaminated, remove and launder or dry-clean before reuse.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Skin Protection:** Not normally required.

**Respiratory Protection:** Use NIOSH approved dust respirator as required to control exposure.

**Eye Protection:** Goggles (ANSI A87.1 standard safety glasses alone do not protect from dust).

**Engineering Controls:** Provide mechanical ventilation to prevent dust concentrations, and to reduce potential exposure.

**Exposure Guidelines:** OSHA 15 mg/m<sup>3</sup> (8 hr. TWA) for total dust.

**Additional Information:** Provide eyewash station(s). Select additional protective equipment (e.g., apron, face shield, etc.) depending on conditions of use.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical Form:</b>	Granular Powder
<b>Color:</b>	White
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	Not applicable

<b>Physical State:</b>	Solid
<b>Solubility in Water:</b>	Insoluble. Swells to form a gel in water.
<b>Vapor Pressure:</b>	Not Applicable
<b>Specific Gravity:</b>	0.85
<b>Boiling Point:</b>	Not Applicable
<b>Decomposition Temperature:</b>	Not Applicable
<b>Freezing Point:</b>	Not Applicable
<b>Decomposition Temperature:</b>	Not Applicable
<b>Evaporation Rate:</b>	Not Applicable
<b>Vapor Density:</b>	Not Applicable
<b>VOC:</b>	Not Applicable
<b>pH:</b>	9 For 1% solution
<b>Coefficient of water/oil:</b>	Not Evaluated
<b>Percent Volatile:</b>	None expected above trace levels

**SECTION 10. STABILITY AND REACTIVITY**

**Conditions to Avoid:** Avoid wet and humid conditions.

**Stability:** Stable

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition Products:** Thermal decomposition or combustion may produce oxides and various hydrocarbons which may be irritating or harmful.

**Incompatibility:** Strong oxidants such as liquid chlorine, enriched gaseous or liquid oxygen, and sodium or calcium hypochlorite.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute Oral Toxicity:** Low oral toxicity.

**Carcinogenicity:** Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

**Reproductive Toxicity:** No data for product.

**Teratogenicity:** No data for product.

**Mutagenicity:** No data for product.

**Skin Irritation:** Not classified as irritating to the skin.

**Eye Irritation:** Not classified as irritating to the eyes.

**Toxicologically Synergistic Products:** None known.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecological Information:** Product not considered toxic to aquatic organisms.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**RCRA Hazard Class:** This product, when unadulterated, is not a RCRA regulated hazardous waste.

**Waste Disposal Method:** Disposal must be arranged in accordance with local, state and federal regulations. This material, when unadulterated, is not a RCRA regulated hazardous waste. However, local disposal regulations will often apply. Care must be taken to prevent environmental contamination from the disposal of material, residues and containers.

**SECTION 14. TRANSPORTATION INFORMATION**

**DOT PROPER SHIPPING NAME:** NOT A DOT/IMO HAZARDOUS MATERIAL

## SECTION 15. REGULATORY INFORMATION

## U.S. Federal Regulations:

**Chemical Weapons Convention (CWC):** This product does not contain any chemical listed under the CWC Schedules of Chemicals.

**Clean Air Act - Hazardous Air Pollutants (HAP):** The following chemicals are listed as hazardous air pollutants (HAP) under the U.S. Clean Air Act Section 12 (40 CFR 61):

Chemical Name: ACRYLIC ACID (Impurity)  
CASRN: 79-10-7  
Percent in Composition: < 0.5 % by wt

Chemical Name: 2-Propenamamide  
Common Name: Acrylamide  
CASRN: 79-06-1  
Percent in Composition: < 0.1% by wt

**Clean Air Act - Ozone Depleting substances (ODS):** This product neither contains, nor was manufactured with a Class I or Class II ozone depleting substance, as defined by the U.S. Clean Air Act Section 602 (10 CFR 82, Subpt A, App. A+B).

**Clean Water Act - Priority Pollutants (PP):** This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307 (2)(1) Priority Pollutant List (10 CFR 401.15).

**Occupational Safety and Health Act (OSHA):** This product is not considered to be a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Resource Conservation and Recovery Act (RCRA):** This product is not considered to be a P or U listed hazardous waster under RCRA (10 CFR 261).

**SARA Title III: Section 302 - Extremely Hazardous Substances (EHS):** This product contains the following chemical regulated under Section 302 (40 CFR 355) as extremely hazardous substances:

Chemical Name: 2-Propenamamide  
Common Name: Acrylamide  
CASRN: 79-06-1  
Percent in Composition: < 0.1% by wt

**SARA Title III: Section 304 - CERCLA:** This product contains the following chemical regulated under Section 304 (40 CFR 302) as hazardous substance(s) for emergency release notification ("CERCLA" List):

Chemical Name: ACRYLIC ACID (Impurity)  
CASRN: 79-10-7  
Percent in Composition: < 0.5 % by wt  
Component RQ: 5000

Chemical Name: 2-Propenamamide  
Common Name: Acrylamide  
CASRN: 79-06-1  
Percent in Composition: < 0.1% by wt  
Component RQ: 5000

**SARA Title III: Section 311/312 - Hazard Communication Standard (HCS):** This product is not regulated under Section 311-312 (40 CFR 370).

**SARA Title III: Section 313 Toxic Chemical List (TCL):** This product does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

**TSCA Section 5(e) - Consent Order / SNUR:** This product is not subject to a Section 5(e) Consent Order or Significant New Use Rule (SNUR).

**TSCA Section 8(b) - Inventory Status:** All chemical(s) comprising this product are either exempt of listed on the TSCA inventory.

**TSCA Section 12(b) - Export Notification:** This product contains the following chemical(s) that are subject to Section 12(b) export notification:

Chemical Name: ACRYLIC ACID (Impurity)  
CASRN: 79-10-7

**State Regulations:**

**California Proposition 65:** The following is required composition information. This product contains the following chemical(s) which are currently listed on the California list of known Carcinogens and Reproductive Toxins:

Chemical Name: ACRYLIC ACID (Impurity)

CASRN: 79-10-7

Percent in Composition: < 0.5 % by wt

**Massachusetts Right-to-Know:** The following is required composition information:

Chemical Name: 2-Propenamide

Common Name: Acrylamide

CASRN: 79-06-1

Percent in Composition: < 0.1% by wt

Chemical Name: ACRYLIC ACID (Impurity)

CASRN: 79-10-7

Percent in Composition: < 0.5 % by wt

**New Jersey Right-to-Know:** The following is required composition information:

Chemical Name: COPOLYMER OF ACRYLAMIDE: SODIUM ACRYLATE

CASRN: 25085-02-03

Chemical Name: WATER

CASRN: 7732-18-5

Chemical Name: ACRYLAMIDE

CASRN: 79-06-1

**Pennsylvania Right-to-Know:** The following is required composition information:

Chemical Name: COPOLYMER OF ACRYLAMIDE: SODIUM ACRYLATE

CASRN: 25085-02-03

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Water

CASRN: 7732-18-5

Comment: Not on Pennsylvania Hazardous Substance List

**SECTION 16. OTHER INFORMATION**

<b>MSDA No:</b>	15113
<b>Reason Issued:</b>	New Format
<b>Prepared By:</b>	The Manufacturing Company Supplying Water Crystals
<b>Approved By:</b>	
<b>Supersede Date:</b>	12/18/02

**Sections Modified:** Database entry. MSDS Section not affected.

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