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**SAFETY DATA SHEET**

Date 08/07/2015

**1. PRODUCT AND COMPANY IDENTIFICATION**

**1.1 Product Identifiers**

Product Name: CRYSTAL-RIGHT MEDIA  
 Product Number: Maz and Maz Fines  
 Brand: Crystal-Right  
 CAS-No.: 12141-46-7

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified Uses: Water softening media

**1.3 Details of the supplier of the safety data sheet**

Company: Mineral-Right Inc.  
 10 West Quail Road  
 Phillipsburg, KS 67661 USA  
 Telephone: +1 800-444-6571  
 Fax: +1 785-543-6572

**1.4 Emergency Telephone Number: +1 785-543-6571**

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Not consider hazardous by the OSHA Hazard Communications Standard (29 CFR 1910.1200).

**2.2 GHS Label elements, including precautionary statements**

Pictogram



Signal word

WARNING

**Hazard statement(s)**

H302 + H332

Harmful if swallowed or if inhaled.

**Precautionary statement(s)**

P261  
 P264  
 P271  
 P280  
 P304 + P340

Avoid breathing dust. Product packaged wet (damp).  
 Wash skin thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/ eye protection/ face protection.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical advice/ attention.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Dispose of contents/ container to an approved waste disposal plant.

P305 + P351 + P338

P337 + P313  
 P403 + P233  
 P501

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**  
None.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

**Formula:**  $[(Al_2O_3)_x(SiO_2)_yH_2O] MnO_2$

<b>3.2 Ingredients:</b>	<b>Percent</b>	<b>TWA</b>	<b>RCRA</b>
Hydrated Alumina, CAS# 1344-28-1	9%	15. mg/m <sup>3</sup>	N/A
Sodium Silicate, CAS# 134409-8	33%	N/A	N/A
Manganese Dioxide, CAS# 1313-13-9	10%	5.00 mg/m <sup>3</sup>	N/A

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**4. FIRST AID MEASURES**

**4.1 General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labeling (See Section 2.2 and/or Section 11).

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

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**5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

No known decomposition products.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

No data available.

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**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection, see section 8.

**6.2 Environmental precautions**

Do not let product enter drains.

- 6.3 Methods and materials for containment and cleaning up**  
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections for disposal (See Section 13)**
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## **7. HANDLING AND STORAGE**

- 7.1 Precautions for safe handling**  
Avoid contact with eyes. Avoid formation of dust.  
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions, see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.
- 7.3 Specific end use(s)**  
Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.
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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters**

#### **Components with workplace control parameters**

Manganese dioxide 1313-13-9 5.00 mg/m<sub>3</sub> USA. Occupational Exposure Limits (OSHA) - Table Z1 Limits for Air Contaminants.

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### **8.3 Personal protective equipment**

#### **Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body protection**

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Control of environmental exposure**

Do not let product enter drains.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical State:	Solid
Physical Form:	Granular Crystals
Evaporation Rate (H <sub>2</sub> O=1):	N/A
Specific Gravity (H <sub>2</sub> O=1):	.80/Cu. Ft.
Vapor Pressure (mm Hg.):	N/A
Vapor Density (Air =1):	N/A
Solubility:	Insoluble
Boiling Point:	N/A
Appearance:	Brown to Black/Opaque Granular Crystals
Odor:	Neutral
pH:	7-10

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

Other decomposition products - no data available.  
In the event of fire, see section 5.

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects Acute toxicity

LD50 Oral, Rat: > 10,000 mg/kg  
LD50 Dermal, Rabbit: > 2,000 mg/kg no data available.

#### Skin corrosion/irritation

Skin: Human  
Result: No skin irritation

#### Serious eye damage/eye irritation

Eyes: Rabbit  
Result: No eye irritation

#### Respiratory or skin sensitization

No data available.

### **Carcinogenicity**

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

- IARC:** 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Zeolites crystalline aluminosilicates, composed of silica (SiO<sub>2</sub>) and alumina (Al<sub>2</sub>O<sub>3</sub>), in various proportions plus metallic oxides.)
- ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### **Reproductive toxicity**

No data available.

### **Inhalation**

May cause respiratory irritation.

### **Specific target organ toxicity - repeated exposure**

No data available.

### **Aspiration hazard**

No data available.

### **Additional information**

No data available.

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## **12. ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

### **12.2 Persistence and degradability**

No data available.

### **12.3 Bio accumulative potential**

No data available.

### **12.4 Mobility in soil**

No data available.

### **12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available.

### **12.6 Other adverse effects**

No data available.

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## **13. DISPOSAL CONSIDERATIONS**

### **13.1 Waste treatment methods**

### **13.2 Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### **13.3 Contaminated packaging**

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### DOT (US)

Not dangerous goods.

### IMDG

Not dangerous goods.

### IATA

Not dangerous goods.

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## 15. REGULATORY INFORMATION

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

N450 Manganese Compounds includes any unique chemical substance that contains manganese as part of that chemical's infrastructure.

### SARA 311/312 Hazards

Manganese dioxide 1313-13-9 Acute Health Hazard, Chronic Health Hazard

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## 16. OTHER INFORMATION

### HMIS Rating

Health Hazard	2
Chronic Health Hazard	*
Flammability	0
Physical Hazard	0



**BLUE:** Health Hazard  
**RED:** Fire Hazard  
**YELLOW:** Reactivity Hazard

### NFPA RATING

Health Hazard	2
Fire Hazard	0
Reactivity Hazard	0

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

### Preparation Information:

Mineral-Right Inc.	785-543-6571
Revision Date:	07/16/2015