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# MATERIAL SAFETY DATA SHEET: MAGNESIUM CHLORIDE PELLETS

**Effective Date:** July 2010

**Identity:** Magnesium Chloride Pellets

## **Physical/Chemical Characteristics:**

Boiling Point: 160° C  
Vapor Pressure: Not Applicable  
Vapor Density: Not Applicable  
Melting Point: 118° C  
Specific Gravity: 1.6 at 25° C  
Solubility: Very hygroscopic; Soluble  
in alcohol.  
Appearance: Translucent off white,  
Pellets

## **Fire and Explosion Hazard Data:**

Flash Point: Not Applicable  
Explosive Limits: Not Applicable  
Flammable Limits: Not Applicable  
Extinguishing Media: Not Applicable  
Spec. Fire Fighting Procedures: None  
Unusual Fire & Explosion Hazards: None  
Autoignition Temperature: Not Applicable

## **Reactivity Data:**

Stability: Stable  
Conditions to Avoid: None  
Incompatibility: None  
Hazardous Decomposition  
Products: None  
Hazardous Polymerization: Will Not Occur

## **Health Hazard Data:**

Threshold Limit Value: No specific TLV is established.  
Nuisance Particulates TLV: No specific TLV is established.  
Effects of Overexposure: Avoid contact with eyes.  
Emergency and First  
Aid Procedures: Eyes - immediately flush with water  
Skin - wash with soap and water

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## **Precautions for Safe Handling and Use:**

### **Steps to be taken in case material is released or spilled:**

Shovel or sweep up and place in waste disposal container. Flush area with water. Major spills (i.e. derailments) may be loaded into trucks with front-end loader. Uncontaminated material may be recycled. If exposed to humid air, material will dissolve. The brine should be flushed with water to drainage.

### **Waste disposal method:**

Discard must be made in accordance with local regulations.

### **Exposure Control/Personal Protection:**

Respiratory: For dusty conditions, particulate filtering disposable mask is adequate.

Ventilation: None.

Gloves: Required.

Eye Protection: Safety glasses are required.

### **Storage and Handling Precautions:**

When removing Dead Sea Magnesium Chloride from its packing, the product at first appears dry. Due to its hygroscopic nature, it readily takes on atmospheric moisture and softens rapidly. The bagged material should be kept closed in a dry atmosphere. When stored under suitable conditions, Dead Sea Magnesium Chloride will keep for an almost unlimited period.

## **Composition/Information on Components**

| <b>Component:</b>                        | <b>% Comp.:</b> |
|--|-----------------|
| Magnesium Chloride (MgCl <sub>2</sub> ): | 46.5 – 47.5%    |
| Calcium Chloride (CaCl <sub>2</sub> ):   | 2.0 – 2.2%      |
| Sodium Chloride (NaCl):                  | 0.5 – 0.8%      |
| Potassium Chloride (KCl):                | 0.2 – 0.5%      |
| Water (H <sub>2</sub> O):                | Balance to 100% |
| Additives:                               | None            |

**Toxicological Information:** If handled according to instructions, no danger to humans.

**Ecological Information:** Not available.