

CHEMICAL SOLUTIONS, INC.

DEAD SEA WORKS LTD

Potash House – P.O. Box 75 – Beer Sheva 84100, Israel  
Tel. (972-7) 646-5347 - Fax (972-7) 628-0533  
E-mail: chemarket@dsw.co.il



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Marketing Division Chemical Products

January 2000

## Magnesium Chloride Pellets

# SPECIFICATION AND SAFETY DATA SHEET

### 1. GENERAL:

**Company:** Dead Sea Works, Ltd  
P.O. Box 75  
Beer-Sheva, Israel 84100

**Trade Name:** Magnesium Chloride Pellets

**Formula:** MgCl<sub>2</sub> 6H<sub>2</sub>O

**Chemical Family:** Inorganic Salt

#### **Chemical Composition:**

	<u>Range</u>
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 %
<b>Additives:</b>	None

#### **Physical Data:**

Boiling Point	160 <sup>0</sup> C
Melting Point	118 <sup>0</sup> C
Specific Gravity	1.6 at 25 <sup>0</sup> C
Vapour Density	N/A
Vapour Pressure	N/A
Flash Point	N/A
Explosive Limits	N/A
Autoignition Temperature	N/A
Solubility	Very hygroscopic, Soluble in alcohol.

**FOR EMERGENCY CONTACT:  
CHEM-TEL, INC. 1-800-255-3924**

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**Appearance:** Translucent off white, Pellets.

2. **Fire and Explosion Hazard Data:**

Flash Point N/A  
Flammable Limits N/A  
Extinguishing Media N/A  
Special Fire Fighting Procedures None. Product can be used to smother fires.  
Unusual Fire and Explosion Hazards None

3. **Health Hazard Data:**

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

4. **Reactivity Data:**

Stability: Stable  
Conditions to avoid: None  
Incompatibility (Material to avoid): None  
Hazardous Decomposition Products: None  
Hazardous Polymerization: Will not occur  
Conditions to avoid: None

5. **Spill or Leak Procedures:**

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:

Disposal must be made in accordance with local regulations.

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**6. Special Protection Information:**

<u>Respiratory Protection:</u>	For dusty conditions, particulate filtering disposable mask is adequate.
Ventilation:	None
Protective Gloves:	Required
Eye Protection:	Safety glasses are required
Other protective equipment:	Not required.

**7. Special Precautions:**

Precautions to be taken in handling and storing:

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.

**8. Toxicological Data:**

If handled according to instructions, no danger to humans.

**9. Ecological Data:**

Not available

Alan Becker

Chief Process Engineer  
Chemical Products  
Dead Sea Works Ltd.

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M.S.D.S.# 1501  
ITEM# MAG50P

**EXHIBIT "A"**

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**MAG Product Specification**

**January 2000**

**Chemical Composition:** Magnesium Chloride Hexahydrate Flakes & Pellets

**Chemical Formula:** MgCl<sub>2</sub>.6H<sub>2</sub>O

**Major Constituents**

**Range**

Magnesium Chloride	(MgCl <sub>2</sub> )	46.0 - 48 %
Calcium Chloride	(CaCl <sub>2</sub> )	2.0 - 3.0 %
Sodium Chloride	(NaCl)	0.5 - 1.0 %
Potassium Chloride	(KCl)	0.2 - 1.0 %
Sulphates		0.02% Typical

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