

# DEAD SEA WORKS LTD

## SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (HAZCOM 2012 - GHS)  
According to Canada Hazardous Products Regulation (WHMIS 2015)

Product name **MAG Pellets**  
Product id 8677-PL  
Revision date 18/07/2018 **Revision: 5**  
Supersedes 18/07/2016

### 1. Identification of the substance & the company

Product identifier MAG pellets  
Chemical formula  $MgCl_2 \cdot 6H_2O$   
Type of product and use Ice and dust control  
Supplier Dead Sea Work LTD  
P.O.B. Beer Sheva 84100, Israel  
Tel: +972-8-6465347  
Fax: +972-8-6280533  
www.dsosalts.com  
Emergency Telephone +972-8-9977577  
CHEMTREC : (800) 424-9300  
Medical: PROSAR 1-888-875-1685 (24HRS)

### 2. Hazards identification

GHS classification Not classified  
Labels and other form of warning Not required.  
Symbol(s) Not required.  
NFPA Ratings (Scale 0-4) Health = 0, Fire = 0, Reactivity = 0.

### 3. Composition / information on ingredients

Components	CAS No.	Weight %
Magnesium Chloride Hexahydrate	7791-18-6	Proprietary

### 4. First-aid measures

Eye contact Flush with plenty of water. Get medical attention if irritation occurs and persists.  
Skin contact Wash with water in case of irritation. Get medical attention if irritation occurs and persists.

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**Inhalation** In case of inhalation, remove person to fresh air. If breathing difficulty or discomfort occurs and persists, seek medical attention.

**Ingestion** Wash out mouth with water provided person is conscious. Obtain medical attention if any discomfort persists.

### Most important symptoms and effects, acute or delayed

None known

**Notes to the physician** In case of ingestion, the salt level in blood must be determined. Treat symptomatically and supportively.

## 5. Fire - fighting measures

**Suitable extinguishing media** Material is not combustible. Use extinguishing media appropriate to surrounding fire conditions.

**Extinguishing media not to be used** None known.

**Unusual fire and explosion hazards** When heated to decomposition, may release poisonous and corrosive fumes of HCl

**Fire fighting procedure** In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

## 6. Accidental release measures

**Personal precautions** Wear protective clothing specified for normal operations (see section 8).

**Methods for cleaning up** Sweep up, place in a bag and hold for waste disposal or possible reuse.

**Environmental precautions** Prevent entry into sewers and watercourses

## 7. Handling and storage

**Handling** Keep containers tightly closed. Handle in accordance with good industrial hygiene and safety procedures.

**Storage** Keep in a dry, well-ventilated place away from incompatible materials (see "materials to avoid").

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### 8. Exposure controls / personal protection

#### Exposure Limits :

Components	ACGIH-TLV Data	Korea OEL	OSHA (PEL) Data
Magnesium Chloride Hexahydrate 7791-18-6	Not determined	Not determined	Not determined

**Ventilation requirements** Good general ventilation.

#### Personal protective equipment:

- **Respiratory protection** Not normally required.
- **Hand protection** Not required.
- **Eye protection** Chemical safety goggles
- **Skin and body protection** Body covering clothes and boots

**Hygiene measures** Do not eat, smoke or drink where material is handled, processed or stored. Wash hands thoroughly after handling and before eating or smoking. Safety shower and eye bath should be provided.

### 9. Physical and chemical properties

**Appearance** White pellets  
**Odor** None.  
**pH** 8.2 @ 10% aqueous solution  
**Melting point/range** 118°C (244°F)  
**Boiling point/range** Not applicable  
**Flash point** Non-combustible. Not applicable.  
**Evaporation rate (ether=1)** Not applicable under standard conditions  
**Flammability (solid, gas)** Not flammable  
**Flammable/Explosion limits** Not flammable/Not explosive  
**Vapor pressure** Not available  
**Density** 1.6 g/cm<sup>3</sup> (20°C)  
**Solubility:**  
- **Solubility in water** 167g/100g  
**Partition coefficient (n-octanol/water)** Not determined  
**Auto-ignition temperature** Not self-ignitable  
**Decomposition temperature** >160°C  
**Viscosity** Not determined  
**Bulk density** 800-900 kg/m<sup>3</sup>  
**Explosive properties** Not explosive  
**Oxidising properties** No oxidising properties can be predicted on the basis of chemical structure

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### 10. Stability and reactivity

Reactivity	None known.
Stability	Stable under normal conditions
Possibility of hazardous reactions	Not expected to occur
Conditions to avoid	Exposure to moisture. Heating above decomposition temperature.
Materials to avoid	Oxidizing agents.
Hazardous decomposition products	Oxides of: potassium, calcium, magnesium and HCl.

### 11. Toxicological information

#### Acute toxicity:

- Rat oral LD50	8100 mg/kg (for MgCl <sub>2</sub> )
Skin corrosion/irritation	Not irritant
Serious eye damage/ irritation	Not irritant
Respiratory or skin sensitisation	No data available
Mutagenicity	Not established
Carcinogenicity	Not classified by IARC Not included in NTP 14th Report on Carcinogens
Reproductive toxicity	No adverse effect were observed on fertility and/or on the development
Specific Target Organ Toxicity (STOT) - Single exposure	No data available
Specific Target Organ Toxicity (STOT) - Repeat exposure	No effects on specific target organs have been identified.
Aspiration hazard	Not expected to occur

### 12. Ecological information

#### Note:

MgCl<sub>2</sub> is a seawater component

Aquatic toxicity	No data available
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<b>Persistence and degradability</b>	Not relevant for inorganic salts
<b>Bioaccumulative potential</b>	Not expected to bioaccumulate.
<b>Mobility in soil</b>	Not relevant for inorganic salts

### 13. Disposal considerations

<b>Waste disposal</b>	Observe all federal, state and local environmental regulations when disposing of this material
<b>Disposal of Packaging</b>	Containers can be recycled after proper cleaning. Dispose of in a safe manner in accordance with local/national regulations.

### 14. Transportation information

<b>DOT</b>	Not regulated
<b>IMDG</b>	Not regulated
<b>ICAO/IATA</b>	Not regulated

### 15. Regulatory information

<b>USA</b>	Reported in the EPA TSCA Inventory.
<b>Canada</b>	Listed in DSL
<b>EU</b>	Anhydrous MgCl <sub>2</sub> is reported in EINECS
<b>Australia</b>	Listed in AICS
<b>China - China inventory</b>	Listed
<b>Japan</b>	Listed in ENCS
<b>Korea</b>	Listed in KECI KE-22691 (Anhydrous MgCl <sub>2</sub> )
<b>Mexico</b>	Listed in the National Inventory of Chemical Substances (INSQ) (Anhydrous MgCl <sub>2</sub> )
<b>New Zealand Inventory</b>	Listed in NZIoC
<b>Philippines</b>	Listed in PICCS

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**Taiwan** Listed (TCSI)

**Vietnam** Listed

**Thailand** Listed

### 16. Other information

**This data sheet contains changes from the previous version in section(s)**  
1,2,3,8,9,11,12,15

The information herein is based on the present state of our knowledge. It is believed to be correct but is not necessarily all-inclusive and shall be used only as a guide. DEAD SEA WORKS Ltd, shall not be held liable for any damage resulting from handling or from contact with the above product. For further information, contact DEAD SEA WORKS Ltd.

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**End of safety data sheet**