

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 Flakes**
Product id 8677-FL
Revision date 18/07/2018 **Revision: 5**
Supersedes 18/07/2016

1. Identification of the substance & the company

Product identifier MAG Flakes
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.

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 Flakes	
Product id	8677-FL	
Revision date	18/07/2018	Revision: 5
Supersedes	18/07/2016	

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 Avoid access to streams, lakes or ponds.

7. Handling and storage

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

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

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 Flakes**
Product id 8677-FL
Revision date 18/07/2018 **Revision: 5**
Supersedes 18/07/2016

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 flakes
Odor None.
pH 8.2 @ 10% aqueous solution
Melting point/range 118°C (244°F)
Boiling point/range Not applicable
Flash point Not relevant.
Evaporation rate (ether=1) Not applicable under standard conditions
Flammability (solid, gas) Not flammable
Flammable/Explosion limits Not applicable
Vapor pressure Not available
Vapor density Not determined
Density 1.6 g/cm³ (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 available
Bulk density 800-900 kg/m³
Explosive properties Not explosive
Oxidising properties No oxidising properties can be predicted on the basis of chemical structure

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 Flakes	
Product id	8677-FL	
Revision date	18/07/2018	Revision: 5
Supersedes	18/07/2016	

10. Stability and reactivity

Reactivity	No reactive hazards known/expected.
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 ₂)
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:

MgCl₂ is a seawater component

Aquatic toxicity	No data available
------------------	-------------------

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 Flakes	
Product id	8677-FL	
Revision date	18/07/2018	Revision: 5
Supersedes	18/07/2016	

Persistence and degradability	Not relevant for inorganic salts
Bioaccumulative potential	Not expected to bioaccumulate.
Mobility in soil	Expected to be mobile due to high solubility.
Note:	Not considered to be PBT or vPvB

13. Disposal considerations

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

14. Transportation information

DOT	Not regulated
IMDG	Not regulated
ICAO/IATA	Not regulated

15. Regulatory information

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

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 Flakes	
Product id	8677-FL	
Revision date	18/07/2018	Revision: 5
Supersedes	18/07/2016	

Philippines	Listed in PICCS
Taiwan	Listed (TCSI)
Vietnam	Listed
Thailand	Listed

16. Other information

This data sheet contains changes from the previous version in section(s)

1,3,4,7,8,11,15

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.

Prepared by HERA Division
telephone: +/972-8-6297835
Fax: +/972-8-6297832
www.icl-group.com
e-mail:msdsinfo@icl-group.com

End of safety data sheet