



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
US OSHA

Revision date 01-Sep-2021

Revision Number 1

## 1. Identification

### Product identifier

**Product Name** MAG Flakes/Pellets

### Other means of identification

**Product Code(s)** 8677-1

### Recommended use of the chemical and restrictions on use

**Recommended use** Ice and dust control

**Restrictions on use** No information available

### Details of the supplier of the safety data sheet

#### Supplier Address

Dead Sea Works LTD  
P.O.B. Beer Sheva 84100, Israel  
Tel: +972-8-6297835  
e-mail:msdsinfo@icl-group.com

### Emergency telephone number

**Emergency Telephone** Chemtrec 1-800-424-9300 +972-8-9977577

## 2. Hazard(s) identification

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

#### Hazard statements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Appearance** flakes or pellets

**Physical state** Solid

**Odor** None

### Other information

No information available.

### 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No	Weight-%	Trade secret
Magnesium Chloride Hexahydrate	7791-18-6	Proprietary	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation</b>	Remove to fresh air. If breathing difficulty or discomfort occurs and persists, seek medical attention.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	Rinse mouth thoroughly with water Get medical attention if symptoms occur NOTE: Never give an unconscious person anything to drink

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

**Symptoms** No information available.

#### Indication of any immediate medical attention and special treatment needed

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

### 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	May emit toxic fumes under fire conditions.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	None.
<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Cool containers with water spray. Contain runoff to prevent entry into water or drainage systems.

### 6. Accidental release measures

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

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

**Methods and material for containment and cleaning up**

**Methods for containment**                      Prevent further leakage or spillage if safe to do so.

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

**Reference to other sections**                      See section 8 for more information. See section 13 for more information.

## 7. Handling and storage

**Precautions for safe handling**

**Advice on safe handling**                      Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**                      Keep container tightly closed in a dry and well-ventilated place. Keep away from Incompatible materials.

## 8. Exposure controls/personal protection

**Control parameters**

**Exposure Limits**                      This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Magnesium Chloride Hexahydrate 7791-18-6	-	-	-

**Appropriate engineering controls**

**Engineering controls**                      Good general ventilation.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**                      Chemical safety goggles.

**Hand protection**                      Not required.

**Skin and body protection**                      Body covering clothes and boots.

**Respiratory protection**                      No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**                      Safety shower and eye bath should be provided.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**

Physical state	Solid
Appearance	flakes or pellets
Color	white
Odor	None
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	8.2	(1:10)
Melting point / freezing point	118 °C / 244.4 °F	
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	
Vapor density	No data available	Not determined
Relative density	1.6 g/cm <sup>3</sup> (20°C)	
Water solubility	167g/100g	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	-	Not self-ignitable
Decomposition temperature	> 160 °C	
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	

**Other information**

Explosive properties	Not explosive
Oxidizing properties	No oxidising properties can be predicted on the basis of chemical structure
Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	800-900 kg/m <sup>3</sup>

## 10. Stability and reactivity

Reactivity	No reactive hazards known/expected.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heating above decomposition temperature. Exposure to moisture.
Incompatible materials	Oxidising agents.
Hazardous decomposition products	Oxides of: potassium, calcium, magnesium and HCl.

## 11. Toxicological information

**Information on likely routes of exposure**

Product Information .

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Acute toxicity****Numerical measures of toxicity****Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Magnesium Chloride Hexahydrate 7791-18-6	8100 mg/kg (Rat)	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Not irritant.

**Serious eye damage/eye irritation** Not irritant.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Magnesium Chloride Hexahydrate 7791-18-6	-	-	-	-

**Reproductive toxicity** No adverse effect were observed on fertility and/or on the development.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No effects on specific target organs have been identified.

**Aspiration hazard** Not expected.

**Other adverse effects** No information available.

## 12. Ecological information

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

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Magnesium Chloride Hexahydrate 7791-18-6	-	-	-	-

**Persistence and degradability** Not relevant for inorganic salts.

**Bioaccumulation** Not expected to bioaccumulate.

Chemical name	Partition coefficient
Magnesium Chloride Hexahydrate 7791-18-6	-

**Mobility in soil** Expected to be mobile because of high solubility.

**Other adverse effects** No information available.

### 13. Disposal considerations

#### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Dispose of in a safe manner in accordance with local/national regulations. Containers can be recycled after proper cleaning.

### 14. Transport information

**DOT** Not regulated  
Transport hazard class(es) Not regulated

**TDG** Not regulated  
Transport hazard class(es) Not applicable

**MEX** Not regulated  
Transport hazard class(es) Not regulated

**IATA** Not regulated

**IMDG** Not regulated  
Transport hazard class(es) Not regulated

### 15. Regulatory information

#### International Inventories

GHS hazardous component CAS registry numbers appearing in section 3 may differ from substances appearing in section 15 due to country or regional chemical inventory coverage requirements, however, remain in compliance with the inventory. Products that are used as food additives are exempt from listing in international chemical inventories.

For further details on the regulatory status for this product in a specific country, please send your inquiry to the following email address: msdsinfo@icl-group.com

<b>TSCA</b>	Listed or exempted
<b>DSL</b>	Listed or exempted
<b>ENCS</b>	Listed or exempted
<b>IECSC</b>	Listed or exempted
<b>KECL</b>	Listed or exempted
<b>PICCS</b>	Listed or exempted
<b>AIIC</b>	Listed or exempted
<b>NZIoC</b>	Listed or exempted
<b>TCSI</b>	Listed or exempted
<b>NCI</b>	Listed or exempted
<b>TECI</b>	Listed or exempted
<b>NSQ</b>	Listed or exempted

**Legend:**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIC** - Australian Inventory of Industrial Chemicals  
**NZIoC** - New Zealand Inventory of Chemicals  
**TCSI** - Taiwan Chemical Substance Inventory  
**NCI** - Vietnam National Chemicals Inventory  
**TECI** - Thailand Inventory FDA Existing Chemicals  
**NSQ** - Mexico National Inventory of Chemical Substances

**US Federal Regulations**

Chemical name	U.S. - TSCA (Toxic Substances Control Act) - Section 5(a)(2) - Chemicals with Significant New Use Rules (SNURs)
Magnesium Chloride Hexahydrate - 7791-18-6	-

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Magnesium Chloride Hexahydrate - 7791-18-6	-

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Magnesium Chloride Hexahydrate 7791-18-6	-	-	-	-

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level

pertaining to releases of this material.

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Magnesium Chloride Hexahydrate 7791-18-6	-	-	

### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Magnesium Chloride Hexahydrate 7791-18-6	-	-	-

### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

## 16. Other information

<b>NFPA</b>	<b>Health hazards</b> 0	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Special hazards</b> -
<b>HMIS</b>	<b>Health hazards</b> 0	<b>Flammability</b> 0	<b>Physical hazards</b> 0	<b>Personal protection</b> X

#### Key or legend to abbreviations and acronyms used in the safety data sheet

##### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

#### **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGl(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 National Institute of Technology and Evaluation (NITE)  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

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Revision date 01-Sep-2021

Revision Note The symbol (\*\*\*) in the margin of this SDS indicates that this line has been revised.

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End of Safety Data Sheet