



# SAFETY DATA SHEET

## MAGNESIUM CHLORIDE PRILL & FLAKES

### 1. SUBSTANCE IDENTIFICATION

Magnesium Chloride Hexahydrate |  $\text{MgCl}_2 \cdot (6)\text{H}_2\text{O}$

Supplier name: Dead Sea Works LTD  
Supplier address: P.O.B. Beer Sheva 84100, Israel  
Supplier phone: +972-8-6297835  
Supplier email: msdsinfo@icl-group.com  
Emergency phone: Chemtrec 1-800-424-9300, +972-8-9977577  
Product Code: 8677-4  
Use: Water treatment, fertilizer mixtures, animal feed

### 2. HAZARDS IDENTIFICATION

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS). This product is not classified as hazardous according to the UN GHS guideline and labeling is not required

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| COMMON NAME                    | CAS NUMBER | Weight %  |
|--------------------------------|------------|-----------|
| Magnesium Chloride Hexahydrate | 7791-18-6  | Propriety |

### 4. FIRST - AID MEASURES

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.  
Skin (or hair) Contact: Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.  
Inhalation: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, seek medical attention.  
Ingestion: Rinse mouth thoroughly with water. Get medical attention if symptoms occur. NOTE: Never give an unconscious person anything to drink  
Notes To Doctor: In case of ingestion, the salt level in blood must be determined. Treat symptomatically and supportively.

### 5. FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Unsuitable extinguishing media: None known.  
Specific hazards arising from the chemical: May emit toxic fumes under fire conditions.  
Special protective actions for fire-fighters: 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: 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.  
Methods for containment: Prevent further leakage or spillage if safe to do so.

## 7. HANDLING AND STORAGE

Precautions For Safe Handling: Handle in accordance with good industrial hygiene and safety practice.  
Safe Storage: Keep container tightly closed in a dry and well-ventilated place. Keep away from Incompatible materials.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

|                            |                               |                            |   |
|----------------------------|-------------------------------|----------------------------|---|
| Appearance / State / Odor: | White solid flakes or pellets | Vapor pressure             | Not available   |
| Odor:                      | None                          | Relative density           | 1.6g/cm <sup>3</sup> (20 °C)  |
| Melting point              | 118 °C                        | Bulk density               | 800-900kg/m <sup>3</sup>  |
| Freezing point             | No data available             | Liquid density             | No data available   |
| Flammability               | No data available             | Vapor density              | No data available   |
| Flash point                | No data available             | Particle size              | No data available   |
| Autoignition temperature   | Not self-ignitable            | Particle size distribution | No data available   |
| Decomposition temperature  | >160 °C                       | Fire point                 | No data available   |
| pH                         | 8.2 (1:10)                    | Explosive properties       | Not explosive   |
| pH (aqueous solution)      | No data available             | Molecular weight           | No data available   |
| Kinematic viscosity        | No data available             | Oxidising properties       | No oxidising properties can be predicted on the basis of chemical structure |
| Dynamic viscosity          | No data available             |                            |   |
| Water solubility           | 167g/100g                     |                            |   |
| Solubilities               | No data available             |                            |   |
| Partition coefficient      | No data available             |                            |   |

## 10. STABILITY AND REACTIVITY

Reactivity: No reactive hazards known/expected.  
Stability: Stable under normal conditions.  
Sensitivity to mechanical impact: None.  
Sensitivity to static discharge: None.  
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

Acute Oral: Magnesium Chloride Hexahydrate LD50 8100 mg/kg (Rat)  
Delayed and immediate effects and also 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: None

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.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: The environmental impact of this product has not been fully investigated. Note MgCl<sub>2</sub> is a seawater component  
Persistence and degradability: Not relevant for inorganic salts.  
Bioaccumulative potential: Not expected to bioaccumulate.  
Mobility: Expected to be mobile because of high solubility.  
Other adverse effects: No information available.

## 13. DISPOSAL CONSIDERATIONS

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

### TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

|                        | IMDG           | ADR/RID/ADN              | IATA           | DOT           |
|------------------------|----------------|--------------------------|----------------|---------------|
| UN Number              | Not regulated  | Not regulated            | Not regulated  | Not regulated |
| Transport hazard class | Not regulated  | Not regulated            | Not regulated  | -             |
| Packing group          | Not regulated  | Not regulated            | Not regulated  | -             |
| Marine pollutant       | Not applicable | -                        | -              | No            |
| Special precautions    | None           | None                     | None           | -             |
| Environmental hazards  | -              | Not applicable           | Not applicable | -             |
| Classification code    | -              | No information available | -              | -             |

## 15. REGULATORY INFORMATION

The Montreal Protocol on Substances that Deplete the Ozone Layer: Not applicable  
The Stockholm Convention on Persistent Organic Pollutants: Not applicable  
The Rotterdam Convention: Not applicable

### 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](mailto:msdsinfo@icl-group.com)

TSCA Listed or exempted  
DSL Listed or exempted  
ENCS Listed or exempted  
IECSC Listed or exempted  
KECL Listed or exempted  
PICCS Listed or exempted  
AIIC Listed or exempted  
NZIoC Listed or exempted  
TCSI Listed or exempted  
NCI Listed or exempted  
TECI Listed or exempted  
NSQ 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                  |

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## 16. OTHER INFORMATION

SDS issue date: 01 September 2021

SDS review date: September 2026

Legend for section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ceiling Maximum limit value

C Carcinogen

STEL STEL (Short Term Exposure Limit)

TWA TWA (time-weighted average)

\* Skin designation

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**End of Safety Data Sheet**