

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

Product name MAG Flakes

Product id 8677-FL

Revision date 18/07/2016 Revision: 4

Supersedes 04/07/2011

1. Identification of the substance & the company

Trade name MAG Flakes

Chemical formula MgCl2*6H2O

Type of product and use lce and dust control

Supplier Dead Sea Work LTD

P.O.B. Beer Sheva 84100, Israel

Tel: +972-8-6465347 Fax: +972-8-6280533 www.dswsalts.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.

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	>95

4. First-aid measures

Eye contact Holding the eyelids apart, flush eyes promptly with copious flowing water for at

least 20 minutes. Get medical attention immediately.

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

persists.

In case of inhalation, remove person to fresh air. Keep him quiet and warm. Apply

artificial respiration if necessary and get medical attention immediately.



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Ingestion If swallowed, wash mouth thoroughly with plenty of water. Get medical attention

immediately.

NOTE: Never give an unconscious person anything to drink

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.

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

HC

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.

7. Handling and storage

Handling Keep containers tightly closed.

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	OSHA (PEL) Data
Magnesium Chloride Hexahydrate	Not determined	Not determined
7791-18-6		

Ventilation requirements Good general ventilation.

Personal protective equipment:

- Respiratory protection Not normally required; In case of dust formation use an approved particulate

respirator.

- Hand protection Protective gloves

- 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/range118°C (244°F)Boiling point/rangeNot applicableFlash pointNot relevant

Evaporation rate (ether=1) Not applicable under standard conditions

Flammability (solid, gas)
Flammable/Explosion limits
Vapor pressure
Vapor density
Not available
Not determined
1.6 g/cm³ (20°C)

Solubility:

- Solubility in water 167g/100g
Partition coefficient Not determined

(n-octanol/water)

Auto-ignition temperature Not self-ignitable

Decomposition temperature >160°C
Viscosity

Bulk density

Explosive properties

>160°C

Not available
800-900 kg/m³

Not explosive

Oxidising properties No oxidising properties can be predicted on the basis of chemical structure

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10. Stability and reactivity

ReactivityNo reactive hazards known/expected. **Stability**Stable under normal conditions

Possibility of hazardous Not expected to occur

reactions

Conditions to avoid Exposure to moisture. Heating above decomposition temperature.

Materials to avoid Oxidizing agents.

Hazardous decomposition

products HCI. Oxides of: potassium, calcium, magnesium, sodium

11. Toxicological information

Acute toxicity:

- Rat oral LD50 8100 mg/kg (for MgCl2)

- Mouse oral LD50 7600 mg/kg (for MgCl2)

- Dermal irritation (rabbit) Not irritant

- Eye irritation (rabbit) Not irritant

Dermal sensitization Not a sensitizer

Mutagenicity Not established

Carcinogenicity Not classified by IARC

Not included in NTP 11th 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 effects on specific target organs have been identified

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



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Aquatic toxicity Not applicable

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 PackagingContainers 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 MgCl₂ is reported in EINECS

Japan Listed in ENCS

Australia Listed in AICS

New Zealand Inventory Listed in NZIoC

China

- China inventory Listed

Taiwan Listed

Philippines Listed in PICCS

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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- inclucive 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 telefax: +/972-8-6297832

www.icl-ip.com

e-mail:msdsinfo@icl-group.com

End of safety data sheet