## **MATERIAL SAFETY DATA SHEET**

Product name MAG Flakes

Product id 8677-FL

Revision date 04/07/2011 Revision: 3

**Supersedes** 08/09/2009

# 1. Identification of the substance & the company

Trade name MAG Flakes

Chemical formula Not applicable

Type of product and use lce and dust control

Company Dead Sea Work Ltd

P.O.B. 75 Beer Sheva 84100, Israel

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

Emergency telephone number: 972-8-9977577

## 2. Hazards identification

Adverse human health effects May irritate eyes

Not classified as dangerous

### 3. Composition / information on ingredients

Components	Weight %	Index No.	EC No.	EU Classification
Magnesium Chloride Hexahydrate 7791-18-6	46.5		2320946 (anhydrous CAS 7786-30-3)	None
Other Salts	3-5	Not Listed	Not Listed	None
Water of crystallization 7732-18-5	48.5-50.5		231-791-2	None

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### 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 if irritation persists.

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

persists.

**In case** of dust inhalation or breathing fumes released from heated material, remove

person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary

and get medical attention immediately.

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

immediately.

NOTE: Never give an unconscious person anything to drink.

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

Treat symptomatically and supportively.

#### 5. Fire - fighting measures

Fire fighting procedure In closed stores, provide fire-fighters with self-contained breathing apparatus in

positive pressure mode

Unusual fire and explosion

hazards When heated to decomposition, may release poisonous and corrosive fumes of HCI

#### 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 re-use

#### 7. Handling and storage

**Handling** Keep containers tightly closed.

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Storage Keep in a dry, well-ventilated place away from incompatible materials (see

"materials to avoid").

## 8. Exposure controls / personal protection

#### **Exposure Limits:**

Components	ACGIH-TLV Data	OSHA (PEL) Data	
Magnesium Chloride Hexahydrate 7791-18-6	Not determined	Not determined	
Other Salts	Not determined	Not determined	
Water of crystallization 7732-18-5	Not determined	Not determined	

**Ventilation requirements** Good general ventilation.

Ventilation must be sufficient to maintain TLV-TWA below 3 mg/m³, respirable particles, and 10 mg/m³, inhalable particles (ACGIH recommendation for Particles

(Insoluble or poorly soluble) Not Otherwise Specified (PNOS)).

Personal protective equipment:

Hygiene measures

- Respiratory protection In case of significant or accidental dust emmissions, dust mask should be worn

- Hand protection Protective gloves

Eye protection
 Skin and body protection
 Chemical safety goggles
 Body covering clothes and boots

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

Safety shower and eye bath should be provided.

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### 9. Physical and chemical properties

**Appearance** White flakes **Boiling point/range** Not applicable Melting point/range 118°C (244°F) Non-combustible Flash point **Auto-ignition temperature** Not applicable Not available

Vapour pressure

Solubility:

- Solubility in water 167g/100g **Bulk density** 800-900 kg/m<sup>3</sup> **Density** 1.6 g/cm³ (20°C)

8.2 @ 10% agueous solution На

**Decomposition temperature** >160°C

#### 10. Stability and reactivity

Stable under normal conditions. **Stability** 

Materials to avoid oxidizing agents

Conditions to avoid

Hazardous decomposition

products

Exposure to moisture Heating above decomposition temperature

Oxides of: potassium, calcium, magnesium, sodium and HCI

Will not occur **Hazardous polymerization** 

# 11. Toxicological information

Acute toxicity:

- Rat oral LD50 8100 mg/kg (for MgCl2) - Mouse oral LD50 7600 mg/kg (for MgCl2)

Mutagenicity Not available

Carcinogenicity Not classified by IARC

Not included in NTP 11th Report on Carcinogens

# 12. Ecological information

Information on ecological

effects MgCl2 is a seawater component

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### 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.

## 14. Transportation information

IMO Not regulated

ICAO/IATA Not regulated

**DOT** Not regulated

# 15. Regulatory information

**EU** Anhydrous MgCl<sub>2</sub> is reported EINECS

Indication of danger
 Not subject to labelling in accordance with EEC Directives.

**USA** Reported in the EPA TSCA Inventory.

Australia Listed in AICS

Canada Listed in DSL

China inventory Listed

Japan Listed in ENCS

New Zealand Inventory Listed in NZIoC

Philippines Listed in PICCS

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### 16. Other information

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

3, 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.

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End of safety data sheet