MATERIAL SAFETY DATA SHEET

Product name Magnesium Chloride Hexahydrate Flakes

Product id 8677-F
Revision date 04/07/2011 Revision: 3

Supersedes 08/09/2009

I. Identification of the substance & the company

Trade name Magnesium Chloride Hexahydrate Flakes

Chemical formula Not applicable

Type of product and use Industrial flooring, abrasive and textile industry, water treatment, fertilizer mixtures,

animal feed, oil drilling, Ice and dust control

Company Dead Sea Work Ltd

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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	46.5-47		2320946 (anhydrous CAS 7786-30-3)	None
Calcium Chloride 10043-52-4	2.2	017-013-00-2	233-140-8	Xi;R36
Sodium Chloride 7647-14-5	0.9		231-598-3	None
Potassium Chloride 7447-40-7	0.6		231-211-8	None
Water of crystallization 7732-18-5	49.3-49.8		231-791-2	None

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First-aid measures

Supersedes

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.

Inhalation 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.

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

Treat symptomatically and supportively.

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

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	
Calcium Chloride 10043-52-4	Not determined	Not determined	
Sodium Chloride 7647-14-5	Not determined	Not determined	
Potassium Chloride 7447-40-7	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:

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

- 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 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/m³

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 Exposure to moisture Heating above decomposition temperature

Conditions to avoid

Hazardous decomposition

products 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 PackagingContainers can be recycled after proper cleaning.

14. Transportation information

IMO Not regulated

ICAO/IATANot regulatedNot regulated

15. Regulatory information

EU Anhydrous MgCl₂ 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)

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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 in ISRAEL

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End of safety data sheet