

Powerful
Performance
that is Naturally
Safer for Pets,
People and the
Environment



www.mag-icemelt.com

MAG® OUT-PERFORMS OTHER ICE MELTERS

MAG® melts ice effectively at temperatures as low as -13° F (-25C°) — considerably below most other products.

And it works fast. In tests at +21°F, within 15 minutes of application **MAG®** melted twice as much ice as rock salt (halite).

MAG[®] is the proven professional-grade snow and ice melter that delivers safe surfaces for commercial and residential building owners and facilities managers.

DEAD SEA MAG

As An Ice Melter

MAC	Magnesium Chloride	Calcium Chloride	Sodium Chloride
Ice Melting Effectiveness at 21°F¹ After 15 minutes After 60 minutes	27g 36g	30g 38g	12g 32g
Residue	Clear Liquid	Oily-Like Liquid Film	Dry White Powder
Corrosion – Aluminum (mils/year) ²	0.375	3.0	1.5
Corrosion – Tin ³	2.1	13.9	17.9
Effective Melting Temperatures	-13°F	-25°F	+20°F

Notes

- 1. Results of ice melting tests performed by Swedish VTI. 10 grams of ice melter were spread evenly on an icy surface. After specified period of time, melted water was drained and measured.
- 2. Exposed to a 150 g/l brine for 22 days by Kali Forchungs Institute (Germany).
- 3. Exposed to a 150 g/l brine (160 g/l brine for MAG) for 120 days by Kali Forchungs Institute.

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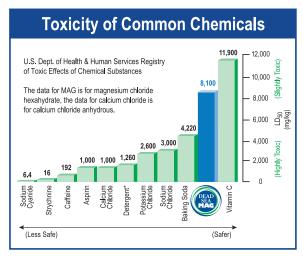
NATURALLY PET FRIENDLY

MAG® is pure and natural Magnesium Chloride.

MAG[®] is 100% natural, clean, effective, and safer when compared to common de-icers.

MAG[®] is nearly three times less toxic than common table salt and eight times less toxic than calcium chloride. With **MAG**[®], there's less worry about pets licking their paws when they return from a walk.

In fact, a form of Magnesium Chloride is used in farm feedstock as a mineral supplement.



*Sodium Dodecylbenzene Sulfonate

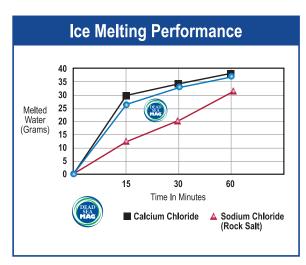
As shown by the data, MAG^{\circledR} is less toxic than baking soda and table salt, chemicals we ingest on a daily basis. When compared to other ice melting chemicals, MAG^{\circledR} is much less toxic and much safer to use around animals, pets and humans.

HIGH PERFORMANCE ICE MELTER

MAG[®] is the best total ice melter available - it is proven more effective, environmentally safer and less damaging than other common ice melters.

Ice melting performance is measured not only by the speed of the melting action but also by the quantity of brine produced per unit of ice melter used.

MAG® freezes (a 22% solution) at -27°F(-33°C) and melts effectively down to -13°F (-25°C) - well below most other ice melters.



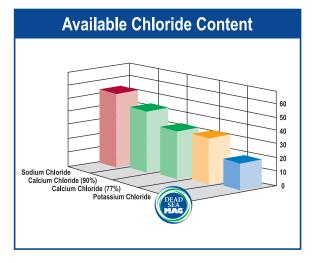
The tests were performed by the Swedish VTI by spreading 10 grams of each ice melter evenly over an icy surface at +21°F.

THE DEAD SEA DIFFERENCE

MAG® is extracted from the Dead Sea by the natural evaporation of seawater and a simple refinement process, making it your naturally safer choice for total ice control.

This extraordinary mineral composition makes the Dead Sea waters therapeutic and a popular choice for vacationers.

The concentration of magnesium chloride in the southern portion of the Dead Sea is as high as 20%.



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

Product name MAG Pellets

Product id 8677-PL

Revision date 18/07/2016 Revision: 4

Supersedes 04/07/2011

1. Identification of the substance & the company

Trade name MAG Pellets

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

HCI

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 upSweep up, place in a bag and hold for waste disposal or possible reuse.

Environmental precautions Prevent product from entering waterways.

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:

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 pellets Odor None.

pH 8.2 @ 10% aqueous solution

Melting point/range 118°C (244°F)
Boiling point/range Not applicable

Flash point Non-combustible Not applicable

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

Flammability (solid, gas) Not flammable

Flammable/Explosion limits Not flammable/Not explosive

Vapor pressure Not available

Density 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

ViscosityNot determinedBulk density800-900 kg/m³Explosive propertiesNot explosive

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



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10. Stability and reactivity

Reactivity None known.

Stability Stable under normal conditions

Possibility of hazardous

reactions

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

Not expected to occur

Oxidizing agents.

Materials to avoid

Hazardous decomposition

products

Oxides of: potassium, calcium, magnesium and HCI

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 13th 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

Aquatic toxicity Not applicable

{ Page 4 of 6 }



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Persistence and degradability Not relevant for inorganic salts

Bioaccumulative potential Not expected to bioaccumulate

Mobility in soil Not relevant for inorganic salts

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.

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End of safety data sheet