



Magnesium Chloride Flakes

SPECIFICATION AND SAFETY DATA SHEET

1. GENERAL

Company:

Dead Sea Works, Ltd.
P.O. Box 75
Beer Sheva, Israel 84 100

Trade Name:

Magnesium Chloride Flakes.

Formula:

$MgCl_2 \cdot 6H_2O$

Chemical Family:

Inorganic Salt

Chemical Composition:

| | <u>Range</u> |
|---------------------------------|-----------------|
| Magnesium Chloride ($MgCl_2$) | 46.5 - 47.5 % |
| Calcium Chloride ($CaCl_2$) | 2.0 - 2.2 % |
| NaCl (Sodium Chloride) | 0.5 - 0.8 % |
| Potassium Chloride (KCl) | 0.2 - 0.5 % |
| H ₂ O | Balance to 100% |

Additives:

None

Physical Data:

| | |
|--------------------------|--|
| Boiling point | 160°C |
| Melting point | 118°C |
| Density | 1.6 at 25°C |
| Vapour Density | N/A |
| Vapour Pressure | N/A |
| Flash point | N/A |
| Explosive limits | N/A |
| Autoignition temperature | N/A |
| Solubility | Very hygroscopic. Soluble in alcohol. |

Appearance:

Translucent off white, flakes.



Marketing Division Chemical Products

2. Fire and Explosion Hazard Data:

Flash Point
Flammable Limits
Extinguishing Media
Special Fire Fighting Procedures
Unusual Fire and Explosion Hazards

N/A
N/A
N/A
None. Product can be used to smother fires.
None.

3. Health Hazard Data:

Threshold Limit Value:
Nuisance Particulates TLV:
Effects of overexposure:

No specific TLV has been established.
No specific TLV has been established.
Avoid contact with eyes.

Emergency and First Aid Procedures:
- Eyes - immediately flush with water.
- Skin - wash with soap and water.

4. Reactivity Data:

Stability:
Conditions to avoid:
Incompatibility (Material to avoid):
Hazardous Decomposition Products:
Hazardous Polymerization:
Conditions to avoid:

Stable
None
None
None
Will not occur
None.

5. Spill or Leak Procedures:

Steps to be taken in case Material is Released or Spilled: Shovel or sweep up and place in waste disposal container. Flush area with water. Major spills (i.e. derailments) may be loaded into trucks with front-end loaders. Uncontaminated material may be recycled. if exposed to humid air, material will dissolve. The brine should be flushed with water to drainage.

Waste disposal Method:
Disposal must be made in accordance with local regulations.

6. Special Protection Information:

Respiratory Protection: For dusty conditions, particulate filtering disposable mask is adequate.

Ventilation:
Protective Gloves:
Eye Protection:
Other protective equipment:

None
Required.
Safety glasses are required.
Not required.



DEAD SEA WORKS LTD

P.O. Box 75 • Beer-Sheva 84100, Israel
Tel. 07-465347.319 • Fax: 07-280533 • Telex: 5263, 5333
Marketing Division Chemical Products



תפעולות המלח בע"מ

כתר המלח • ת"ד 75 • באר-שבע 84100
פ.ד. 07-465347.319 • טלפקס 5263 • פקס 07-280533
אגף שיווק למוצרים כימיים

7. Special Precautions:

Precautions to be taken in handling and storing:

When removing Dead Sea Magnesium Chloride from its packing, the product at first appears dry. Due to its hygroscopic nature, it readily takes on atmospheric moisture and softens rapidly. The bagged material should be kept closed in a dry atmosphere. When stored under suitable conditions, Dead Sea Magnesium Chloride will keep for an almost unlimited period.

8. Toxicological Data:

If handled according to instructions no danger to humans.

9. Ecological Data:

Not available

