



# MATERIAL SAFETY DATA SHEET MAGNESIUM CHLORIDE

**NFPA Classification**

Health 1  
Flammability 0  
Reactivity 0  
Specific Hazard 0

## SECTION I - MATERIAL IDENTIFICATION AND USE

<b>Supplier:</b> NSC MINERALS INC. 2241 Speers Avenue Saskatoon, Saskatchewan Canada S7L 5X6	<b>Emergency Telephone Numbers:</b> (306) 934-6477 (888) 668-7258
<b>Chemical Name:</b> MgCl <sub>2</sub> Magnesium Chloride	<b>Chemical Family:</b> Not Available
<b>Product Use:</b> Deicing, Dust Control, General Industrial	<b>Trade Name:</b> MgCl <sub>2</sub> Magnesium Chloride

## SECTION II - HAZARDOUS INGREDIENTS

Magnesium Chloride (Anhydrous)	CAS # 7786-30-3
Magnesium Chloride (Hexahydrate)	CAS # 7791-18-6

## SECTION III - PHYSICAL DATA

<b>Physical State</b> Solid	<b>Appearance and Odour</b> White Crystalline Solid, Odourless	<b>Odour Threshold</b> Not Available
<b>Boiling Point</b> 1412°C	<b>Solubility In Water</b> 167g/100ml water at 20°C	<b>Specific Gravity</b> 1.569 (Water = 1)

## SECTION IV - FIRE AND EXPLOSION HAZARDS

<b>Flammability</b> Non Flammable	<b>Means of Extinction</b> Non Combustible
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**SECTION V - REACTIVITY DATA**

**Chemical Stability**  
Stable

**Incompatible Materials**  
Oxidizing Agents, Acids, Metals in presence of moisture

**SECTION VI - TOXICOLOGICAL PROPERTIES**

**Route of Entry -** Eye, skin contact, inhalation, ingestion

**Acute Health Effects:**

**Eye** - May cause irritation

**Skin** - May cause irritation

**Inhalation (of dust)** - May cause respiratory tract irritation

**Ingestion** - May cause upset stomach

**Irritancy**  
May Cause Irritation

**Respiratory Tract Sensitization**  
No Data Available

**Mutagenicity**  
No Data Available

**Teratogenicity**  
No Data Available

**Carcinogenicity**  
Not Classified

**Reproductive Effects**  
No Data Available

**SECTION VII - PREVENTIVE MEASURES****Personal Protective Equipment:**

**Gloves -** Recommended

**Footwear -** Normal

**Respiratory -** Wear NIOSH/MSHA approved respiratory protection

**Clothing -** Normal long sleeved work clothes

**Eyes -** Safety goggles recommended

**Leak and Spill Procedures** Use broom or dry vacuum to collect material for reuse or proper disposal. Avoid creating dust. Rinse area with water. Prevent large spills from entering sewers and waterways.

**Waste Disposal** Dispose of in accordance with all applicable Federal, Provincial, State and local Environment Regulations.

**Storage** Store in dry area. Keep away from incompatible materials such as strong acids and

### SECTION VIII - FIRST AID MEASURES

<b>Skin</b>	Wash with soap and water.
<b>Eyes</b>	Flush with large amounts of water.
<b>Inhalation</b>	If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Ingestion</b>	Drink large quantities of water. Bring to the attention of a physician.

### SECTION IX - PREPARATION OF MATERIAL SAFETY DATA SHEET

<b>Prepared By:</b> NSC MINERALS INC.	<b>Date Prepared:</b> September 1, 2009
<b>Phone Number of Preparer:</b> (306) 934-6477	

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