



# Material Safety Data Sheet

## Section 01: Product & Company Identification

**Product Name:** **MAGNESIUM CHLORIDE FLAKES**

**Manufacturer:** Innovative Group of Companies  
78 Orchard Road,  
Ajax, Ontario,  
LIS 6L1,  
Canada.

Effective date: **March, 2006**

**Emergency Phone Number:**

**613-996-6666**

24 Hours/Day: 7 Days/Week

**For More Information Call:**

1-800-387-5777

905-427-0318

**Trade Name:** MAG Flakes  
**Material Uses:** De-icing, Dust Control  
**WHMIS Classification:** Not Controlled  
**Chemical Family:** Inorganic Salt

## Section 2: Composition and Information on Ingredients

| Components         | CAS #     | % by Weight |
|--------------------|-----------|-------------|
| Magnesium Chloride | 7786-30-3 | 47%         |

## Section 3: Physical Data

**Physical state:** Solid.  
**Odor / Appearance:** White flake / Translucent, odorless  
**Odor Threshold:** n/a  
**Specific Gravity:** 1.65 @ 25 C  
**pH:** Neutral  
**Vapor Pressure:** n/a  
**Solubility in Water:** Soluble in Water & Alcohol  
**% Volatile:** n/a  
**Coefficient of water / oil Distribution:** n/a  
**Vapor Density:** n/a

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| <b>Section 4:</b> | <b>Fire &amp; Explosion Hazard</b> |
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| <b>Flammability:</b>                     | No  |
| <b>If yes under what Conditions:</b>     | n/a   |
| <b>Means of Extinguishing:</b>           | n/a   |
| <b>Special Procedure:</b>                | none, product can be used to extinguish fires |
| <b>Flash Point:</b>                      | n/a   |
| <b>Upper Explosion Limit:</b>            | n/a   |
| <b>Lower Explosion Limit:</b>            | n/a   |
| <b>Auto Ignition temperature:</b>        | n/a   |
| <b>Sensitivity to Mechanical Impact:</b> | Not Sensitive                                 |
| <b>Sensitivity to Static Discharge:</b>  | n/a   |

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| <b>Section 5:</b> | <b>Reactivity Data</b> |
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|--|---|
| <b>Chemical Stability:</b>                 | Yes   |
| <b>If No Under What Conditions:</b>        | n/a   |
| <b>Incompatibility o other Substances:</b> | Yes   |
| <b>If So, Which ones:</b>                  | Bromine tri fluoride, sulfuric acid, sodium, methyl vinyl, zinc |
| <b>Reactivity under What Conditions:</b>   | n/a   |
| <b>Hazardous Decomposition Products:</b>   | Chloride fumes are given off @ temperatures >1600 deg C         |

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| <b>Section 6:</b> | <b>Health Hazards</b> |
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| <b>Route of Entry:</b>                         | Inhalation and Ingestion  |
| <b>Effect of Acute exposure to material:</b>   | Very low toxicity LD50 (oral rat)<br>8100mg/kg, may cause slight irritation of eyes, skin |
| <b>Effect of Chronic exposure to material:</b> | n/a   |
| <b>Exposure limit:</b>                         | n/a   |
| <b>Synergetic Material:</b>                    | None  |
| <b>Irritancy of Material:</b>                  | Minor irritant  |
| <b>Sensitivity of Material:</b>                | n/a   |
| <b>Carcinogenetic, Reproductive Effect:</b>    | n/a   |

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| <b>Section 7:</b> | <b>First AID Measures</b> |
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| <b>Eye Contact:</b>  | Flush eyes with water   |
| <b>Skin Contact:</b> | Remove from skin by wiping and washing thoroughly with water              |
| <b>Inhalation:</b>   | Remove victim to fresh air  |
| <b>Ingestion:</b>    | If discomfort exists, induce vomiting. Seek medical attention immediately |

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| <b>Section 8:</b> | <b>Preventative Measures</b> |
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| <b>Eye Contact:</b>                         | Wear Safety Goggles   |
| <b>Skin Contact:</b>                        | Wear Rubber Gloves, Boots & Long Sleeve Shirt   |
| <b>Engineering Controls:</b>                | Mechanical ventilation recommended in enclosed areas  |
| <b>Waste Disposal:</b>                      | Dispose of material in government approved landfill site in accordance with local laws          |
| <b>Handling Procedures &amp; Equipment:</b> | Wash skin and equipment with water  |
| <b>Storage requirement:</b>                 | Store in cool dry area. Due to its hygroscopic nature, MAG absorbs moisture and softens rapidly |
| <b>Special Shipping information:</b>        | No special shipping procedures necessary  |

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| <b>Section 9:</b> | <b>Preparation Information</b> |
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|--------------------------|-------------------------------|
| <b>Prepared By:</b>      | Innovative Group of Companies |
| <b>Telephone #:</b>      | 905-427-0318                  |
| <b>Preparation Date:</b> | March, 2006                   |
| <b>Superseded Date:</b>  | November, 2005                |