

# MATERIAL SAFETY DATA SHEET

\*\*\*\*\* SECTION 1 - COMPANY INFORMATION \*\*\*\*\*

NAME: Knight Chemicals LLC  
ADDRESS: 7320 West Florist Avenue  
Milwaukee, WI 53218  
TELEPHONE: 414-461-0100  
FAX: 414-461-0903

EMERGENCY TELEPHONE NUMBER: Call KNIGHT CHEMICALS at 800-825-7650 for emergencies involving a spill, leak, fire, exposure, or accident.

\*\*\*\*\* SECTION 2 - PRODUCT IDENTIFICATION \*\*\*\*\*

Product Trade Name: MAG™ TOTAL ICE CONTROL  
Chemical Name: Magnesium Chloride Hexahydrate Pellets  
Synonyms: MgCl<sub>2</sub> 6H<sub>2</sub>O  
Chemical Family: Inorganic Salt  
CAS Number: 7786-30-3  
Hazard Rating (HMIS/NFPA):  
HAZARDOUS COMPONENTS/CAS# OSHA Pel ACGIH TLV Other Limit  
None None None

\*\*\*\*\* SECTION 3 - INGREDIENTS \*\*\*\*\*

<u>Chemical</u>	<u>Wt%</u>
Magnesium Chloride (MgCl <sub>2</sub> )	46.0- 48%
Calcium Chloride (CaCl <sub>2</sub> )	2.0 - 2.2%
Sodium Chloride (NaCl)	0.5 – 0.8%
Potassium Chloride (KCl)	0.2 – 0.5%
Water (H <sub>2</sub> O)	Balance to 100%
Additives:	None

\*\*\*\*\* SECTION 4 – PHYSICAL DATA \*\*\*\*\*

MELTING POINT: 244°F  
BOILING POINT: 320°F  
EVAPORATION RATE: NA  
VAPOR PRESSURE: NA  
VAPOR DENSITY: NA  
SOLUBILITY IN WATER: Very hygroscopic, soluble in water and alcohol.  
SPECIFIC GRAVITY: 1.6@77°F  
APPEARANCE: Off white pellets  
ODOR: Odorless

\*\*\*\*\* SECTION 5 - FIRE & EXPLOSION HAZARD DATA \*\*\*\*\*

FLASH POINT: None  
FLAMMABLE LIMITS: None  
LEL: NA  
UEL: NA  
EXTINGUISHING MEDIA: Non-Flammable  
FIRE AND EXPLOSION HAZARDS: None  
SPECIAL FIRE FIGHTING PROCEDURES: None, product can be used to smother fires

\*\*\*\*\* SECTION 6 - REACTIVITY DATA \*\*\*\*\*

CHEMICAL STABILITY: Stable  
CONDITIONS TO AVOID: None  
INCOMPATIBILITY: None  
HAZARDOUS DECOMPOSITION PRODUCTS: Releases hydrogen chloride vapors if heated over 300°F.  
HAZARDOUS POLYMERIZATION: Will not occur  
CONDITIONS TO AVOID: Excessive exposure to air will lead to wetting & caking.

\*\*\*\*\* SECTION 7 - HEALTH HAZARD DATA \*\*\*\*\*

ROUTES OF ENTRY: Inhalation, Ingestion  
HEALTH HAZARD: May cause slight irritation of eyes, skin & respiratory tract.

CARCINOGENICITY:  
NTP? No  
IARC Monographs? No  
OSHA Regulated? No

**SIGNS & SYMPTOMS of EXPOSURE:**

**Medical Conditions Generally Aggravated by Exposure:** Inhalation may cause slight respiratory irritation. Ingestion can cause stomach discomfort. Very low oral toxicity [LD 50 (rat) approx. 8,100 mg/kg].

**Emergency First Aid Procedures:** INGESTION - If discomfort exists, induce vomiting. Call a doctor immediately if discomfort persists. INHALATION - Move to fresh air, administer oxygen if necessary. EYE CONTAMINATION - Wash eyes with plenty of water. Obtain medical attention if discomfort exists. SKIN CONTACT - Wash thoroughly with soapy water.

\*\*\*\*\* SECTION 8 - PRECAUTIONS FOR SAFE HANDLING & USE \*\*\*\*\*

**If Released Or Spilled:** Sweep up all dry material and place in a suitable container. Flush area with water. Major spills may be loaded with front-end loader. Uncontaminated product may be reused.

**Waste Disposal Method:** Disposal must be made in accordance with local regulations for non-toxic non-hazardous waste.

**Precautions To Be Taken In Handling & Storing:** Keep previously opened containers tightly closed. Do not store where seepage might be a problem. Due to its hygroscopic nature, MAG readily absorbs moisture from the air and softens rapidly.

**Other Precautions:**

**Toxicological Data:**

If handled according to instructions, no danger to humans.

**Ecological Data:**

Not available

\*\*\*\*\* SECTION 9 - CONTROL MEASURES \*\*\*\*\*

**Respiratory:** Not required - NIOSH approved mask

**Ventilation:** Not required

**Protective Devices:** Goggles

**Work/Hygienic Practices:** Gloves, goggles and disposable mask recommended if constantly handled.