

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 LLC 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 Flake
Synonyms: MgCl2 6H2O
Chemical Family: Inorganic Salt
CAS Number: 7791-18-6

Table with 4 columns: Hazard Rating (HMIS/NFPA), HAZARDOUS COMPONENTS/CAS#, OSHA Pel, ACGIH TLV, Other Limit. Row 1: None, None, None, None.

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

Table with 2 columns: Chemical, Wt%. Rows include Magnesium Chloride (MgCl2), Calcium Chloride (CaCl2), Sodium Chloride (NaCl), Potassium Chloride (KCl), and Water (H2O).

***** SECTION 4 - PHYSICAL DATA *****

FORM: Flakes
COLOR: White
ODOR: Odorless
Change in physical state: Hygroscopic
Flash Point: Not applicable, because not combustible
Explosion hazard: Not Applicable
Density (20°C): 1.6 gr/cm³
Bulk Density: 800 - 900 kg/m³
Solubility in water (20°C): 167 g/100 ml water
pH value: 8.2

***** 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- 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.

***** SECTION 9- 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:

Ecological Information:

Behavior and environmental

If properly introduced in small concentrations into adapted biological sewage treatment plants, decomposition of the activated sludge is not affected.

Ecotoxic effects

Not available

Not mentioned in the EC Regulations of 4/5/76 concerning discharge of dangerous materials into waters, neither in List I nor List II.

MgCl₂ is a component of sea water.

Transportation Information:

Is not a hazardous material according to the transport regulations.

Other Information:

The information contained herein is based on our present knowledge and is not meant to guarantee product properties.

Recipients of our product must take responsibility for observing existing laws and regulations.