

## SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER:	<b>MAGNESIUM CHLORIDE</b>
OTHER MEANS OF IDENTIFICATION:	Magnesium dichloride
RECOMMENDED USE:	Oilwell drilling fluid and cement additive
RESTRICTIONS ON USE:	None known
SUPPLIER IDENTIFIER:	<b>Di-Corp</b> <b>8750-53 Ave</b> <b>Edmonton, AB T6E 5G2</b> <b>780-440-4923</b>
EMERGENCY PHONE NUMBER:	780-440-4923

## SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION:	Not hazardous
LABEL SYMBOLS:	Not applicable
SIGNAL WORD:	Not applicable
CLASSIFICATION INFORMATION:	Not applicable
PRECAUTIONARY STATEMENTS:	Not applicable
OTHER HAZARDS:	None known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Magnesium Chloride	7786-30-3	47% w/w

## SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	Remove contaminated clothing and wash affected area thoroughly with water and soap. If irritation occurs and persists, obtain medical attention.
EYE CONTACT:	Immediately flush with gently flowing warm water until irritation ceases. Obtain medical attention if irritation persists.
INGESTION:	Obtain medical attention if symptoms develop.
INHALATION:	Move to area free from dust. If victim is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If breathing difficulties or distress continues obtain medical attention.
MOST IMPORTANT SYMPTOMS / EFFECTS:	No known acute or chronic health effects.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:	Treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use media appropriate for packaging and surrounding materials.
UNSUITABLE EXTINGUISHING MEDIA:	None.
SPECIFIC FIRE HAZARDS:	Does not burn or support combustion. During a fire, corrosive and toxic hydrogen chloride, chlorine and chlorine oxide gases and magnesium oxide and other toxic and irritating fumes and gases may be formed by thermal decomposition or combustion.
HAZARDOUS COMBUSTION PRODUCTS:	Magnesium chloride hexahydrate starts to release very toxic and corrosive hydrogen chloride at about 110°C. Anhydrous magnesium chloride begins to release chlorine gas at 300°C.
SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:	Self-contained breathing apparatus required for fire-fighting personnel.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear appropriate safety gear including eye and respiratory protection.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Collect dry material by sweeping and shoveling. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Flush spill area thoroughly with water.

## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Avoid contact with eyes or prolonged skin contact. Use good personal hygiene and housekeeping. Launder contaminated clothing before reuse.

### CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in a cool, dry, well-ventilated place.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:	Not established. Local nuisance dust levels apply.
ENGINEERING CONTROLS:	Use only with adequate ventilation. If user operations generate dust use process enclosure, local exhaust ventilation or other engineering controls to keep worker exposure below limits.
	PERSONAL PROTECTIVE MEASURES
RESPIRATORY PROTECTION:	Approved dust masks recommended for dust levels below TLV. Use a properly fitted particulate filter respirator complying with an approved standard if airborne concentrations exceeds TLV or if a risk assessment indicates this is necessary.
PROTECTIVE GLOVES:	Not required.
EYE PROTECTION:	Safety glasses with side-shields.
OTHER PROTECTIVE EQUIPMENT (SPECIFY):	Protective clothing as required to prevent contact. Ensure eye-wash station and emergency shower are available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White flakes
ODOUR:	Odourless
ODOUR THRESHOLD:	Not applicable
pH:	Neutral
MELTING POINT / FREEZING POINT:	713°C (anhydrous salt)
BOILING POINT / RANGE:	1412°C (anhydrous salt)
FLASH POINT:	Not applicable
EVAPORATION RATE:	Not applicable
FLAMMABILITY:	Not applicable
FLAMMABILITY / EXPLOSIVE LIMITS:	Not applicable
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not available
RELATIVE DENSITY:	1.65 (specific gravity)
SOLUBILITY:	Soluble in water
PARTITION COEFFICIENT:	Not available
AUTO-IGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not available

VISCOSITY: Not available

## SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None under normal conditions of storage or use.  
CHEMICAL STABILITY: Stable under normal conditions of storage or use.  
POSSIBILITY OF HAZARDOUS REACTIONS: Polymerization will not occur.  
CONDITIONS TO AVOID: Temperatures above 110°C (hexahydrate); temperatures above 300°C (anhydrous).  
INCOMPATIBLE MATERIALS: Explosive with furan-2-peroxycarboxylic acid.  
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of magnesium, chlorine gas, hydrogen chloride.

## SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY: LD50 (Oral, rat) = 2800 mg/kg  
LD50 (Dermal): No information available  
LC50 (Inhal, rat): No information available

SKIN CONTACT: Non-irritating to intact skin. Minor irritation may occur on abraded skin.  
EYE CONTACT: Dust and concentrated solutions may cause mild eye irritation.  
INGESTION: No effects expected from ingestion of small quantities.  
INHALATION: Dust may cause irritation including coughing and sneezing.  
CARCINOGENICITY: Not carcinogenic based on available information.  
TERATOGENICITY: Not teratogenic based on available information.  
REPRODUCTIVE TOXICITY: Not a reproductive toxin based on available information.  
MUTAGENICITY: Not mutagenic based on available information.  
CHRONIC TOXICITY: No information available.  
TARGET ORGAN EFFECTS: No information available.

## SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No information available.  
PERSISTENCE AND DEGRADABILITY: Not applicable to inorganic substances.  
BIOACCUMULATIVE POTENTIAL: Does not bioaccumulate.  
MOBILITY IN SOIL: Dissociates into ions.  
OTHER ADVERSE EFFECTS: None know.

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. It may be possible to dispose of this product in a landfill: Check with local operator.

## SECTION 14: TRANSPORTATION INFORMATION

TDG: Not regulated  
DOT: Not regulated  
IATA: Not regulated  
IMDG: Not regulated  
UN NUMBER: Not applicable  
PROPER SHIPPING NAME: Not applicable

CLASS:	Not applicable
PACKING GROUP:	Not applicable
IMDG HAZARDS:	Not a marine pollutant
BULK TRANSPORT:	Not applicable
SPECIAL PRECAUTIONS:	None

### **SECTION 15: REGULATORY INFORMATION**

DSL:	On the DSL.
WHMIS CLASS:	None
TSCA:	Listed

### **SECTION 16: OTHER INFORMATION**

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