

Calcium Magnesium Acetate

Solid Commercial Deicer

Safety Data Sheet

1 PRODUCT & COMPANY IDENTIFICATION

Product Name	Calcium Magnesium Acetate
Cas #	7791-18-6, 7647-14-5, 010043-52-4
Product Use	De-Icer
Manufacturer(s)	Dye: NA

Calcium Magnesium Salt Depot
 5442 Wells Park Road
 West Jordan, Utah 84084
 801-608-5616

Blending/Bagging Salt Depot
 5442 Wells Park Road
 West Jordan, Utah 84084
 801-608-5616

Supplier Salt Depot
 5442 Wells Park Road
 West Jordan, Utah 84084
 801-608-5616

2 HAZARDS IDENTIFICATION

Classification According to OSHA HAZCOM 2012
 Hazard Class Not classified as hazardous

Label elements according to OSHA HAZCOM 2012
 There are no OSHA required label elements for this product.

Classification According to WHMIS (Canada)
 Hazard Class Not controlled
 WHMIS Hazard Symbols Not applicable
 WHMIS Signal Word Not applicable

Potential Health Effects

Eye Contact	May cause temporary eye irritation. Corneal injury is unlikely.
Skin Contact	Repeated contact may cause slight skin irritation or dry skin.
Inhalation	May cause irritation or coughing.
Ingestion	Ingesting large quantities may cause nausea, vomiting, diarrhea & abdominal discomfort.
Effects of repeated exposure	No effects other than described above are expected.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS#	Percent
Hydrated Calcium Magnesium & other acetates	76123-46-1	96%
Moisture & water insoluble oxides / hydroxides		<4

4 FIRST AID MEASURES

First Aid Procedures

Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If doable remove contact lenses, if worn. If irritation continues, seek medical attention.
Skin Contact	As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.
Inhalation	If inhaled, remove to fresh air and seek medical attention.
Ingestion	If swallowed, give milk or water to drink & telephone for medical advice. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to unconscious person.

Most Important Symptoms / Effects

Eye Contact	May cause eye irritation. Symptoms may include temporary discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Skin Contact	May cause itching or irritation of cut or abraded skin. Symptoms of prolonged contact may include dry skin.

Inhalation	Inhalation of dust during handling may cause respiratory tract irritation and coughing.
Ingestion	Injection of large quantities may cause nausea, vomiting, diarrhea and abdominal discomfort.

Indication of Immediate Medical Attention & Special Treatment

Specific Treatment If you feel unwell, seek medical advice immediately. Show the label or safety data sheet to medical personnel if possible.

5 FIRE FIGHTING MEASURES

Flammability	Flash Point (close cup) Auto Ignition	Nonflammable by OSHA/WHMIS criteria N / A
Extinguishing Media	Suitable extinguishing media	Water, carbon dioxide, or dry chemical. Use extinguishing media appropriate for surrounding materials.
	Unsuitable extinguishing media	N/A
Special Hazards	Hazardous Combustion Products	Normal combustion forms carbon dioxide & water.
	Explosion Limits	Data not available. Not considered to be an explosion hazard.
	Unusual Fire Hazards	None expected.
Special Protective Equipment & Precautions For Firefighters		
	Special Protective Equipment for Firefighters	Wear NIOSH approved self-contained breathing apparatus (SCBA) with positive air pressure.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, & Emergency Procedures	
Avoid eye / skin contact with spilled material. Refer to Section 7 for additional handling precautions.	
Methods of Containment	If material is dissolved, contain and/or absorb spill with inert material (e.g. sawdust, sand, vermiculite).
Methods for Cleaning Up	Scoop up material and transfer to disposal container. If needed, wash spillage area with plenty of water.

7 HANDLING & STORAGE

Precautions For Safe Handling	
Handling	Avoid eye contact and breathing dusts from this material
Storage	Store in tightly sealed original containers, away from direct heat and strong oxidizing agents. Do not store or handle product in systems constructed of wetted parts consisting of galvanized steel, zinc, or brass components.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits	
TWA PEL	No specific limits have been established for this product. As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 8-hr TWA limits of 15mg/m ³ (total particulate) and 5mg/m ³ (respirable fraction).
TWA TLV:	No specific limits have been established for this product. As a guideline, ACGIH (USA) has established the following limits which are generally recognized for inert or nuisance dust. Particles (insoluble) not otherwise classified (PNOC): 8-hr TWA limits of 10 mg/m ³ (as total dust) and 3 mg/m ³ (as respirable).
Exposure Controls	
Engineering Controls	No special ventilation is usually necessary; however if operation conditions create high concentrations of this material, special ventilation may be needed to keep exposure to airborne contaminants below the exposure limit.
Individual Protective Measures/Personal Protective Equipment	
Eye/Face Protection	Safety Glasses / Goggles recommended if eye exposure to product or dust is possible.
Skin & Body Protection	Chemical-resistant gloves & clothing should be used if prolonged exposure is possible to prevent drying of skin.
Respiratory Protection	Breathing of dust should be avoided. If operating conditions create high airborne

concentrations of this material, the use of an approved respirator is recommended.

9 PHYSICAL & CHEMICAL PROPERTIES

Appearance	White to off-white spherical pellet
Odor	Odorless to slight vinegar odor
Odor Threshold	No data available
pH (20C, 68F)	8-10 (10% aqueous solution)
Boiling Point	Not applicable
Flash Point	Not applicable
Evaporation Rate	No data available
Flammability / Explosion Limits	Not applicable
Vapor Pressure (20 Degrees C)	Not applicable
Vapor Density	Not applicable
Relative Density	No data available
Solubility (H2O)	Partially soluble
Partition Coefficient; n-OCTANOL/WATER	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity (20 Degrees C)	Not applicable
Oxidizing Properties	Not oxidizing
Explosive Properties	Not explosive

10 CHEMICAL STABILITY REACTIVITY INFORMATION

Chemical Stability	Stable. Polymerization will not occur.
Conditions to avoid	Avoid prolonged contact with reactive metals such as magnesium and zinc, especially in closed systems where hydrogen gas from the oxidation of these materials may accumulate over time.
Incompatible materials	Strong oxidizing agents; strong acids.
Hazardous decomposition products	May decompose into oxides of carbon.
Possibility of hazardous reactions	

11 TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 rat-oral: 3000 mg/kg
LC50 rat-inhalation: >5000 mg/M³
LD50 rat-dermal: >5000 mg/kg
Dermal irritation rabbit: Non irritating
Ocular irritation rabbit: Moderate redness/discharge and some swelling of iris at 1 hr.; insignificant signs of irritation at 24 hr.
All signs cleared at 72 hr.
Sub-chronic oral: No effects after 28 consecutive days dosing at 1000mg/kg/day.

Likely Route of Exposure:

Skin contact, eye contact, ingestion

Symptoms Related To The Physical, Chemical, & Toxicological Characteristics

Eye	May cause eye irritation. Symptoms may include temporary discomfort or pain, excess blinking & tear production, with possible redness & swelling.
Skin	May cause itching or irritation of cut or abraded skin. Symptoms of prolonged contact may include dry skin.
Inhalation	Inhalation of dust during handling may cause respiratory tract irritation and coughing. This product is not otherwise expected to be an inhalation hazard.
Ingestion	Ingestion of large quantities may cause nausea, vomiting, diarrhea and abdominal discomfort.

Delayed, Immediate Effects & Chronic Effects From Short & Long Term Exposure / Numerical Measures of Toxicity

Skin Corrosion	Based on available data, the classification criteria are not met
Serious Eye Damage / Irritation	Based on available data, the classification criteria are not met
Respiratory/ Skin Sensitization	Based on available data, the classification criteria are not met
Germ Cell Mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	The product does not contain any ingredients that are considered to be carcinogens by IARC, NTP, or OSHA.
Reproductive Toxicity	Based on available data, the classification criteria are not met
STOT-Single Exposure	Based on available data, the classification criteria are not met
STOT-Repeated Exposure	Based on available data, the classification criteria are not met
Aspiration Hazard	Based on available data, the classification criteria are not met

12 ECOLOGICAL INFORMATION

Ecotoxicity (Aquatic & Terrestrial) Not expected to cause long-term adverse effects in the aquatic or terrestrial environments.

Persistence/Degradability Readily biodegradable. COD (TOD): 0.75g O₂/g deicer; BOD₂₀ (2°C): .40 g O₂/g deicer, BOD₂₀ (10C): 0.67
Bioaccumulative Potential Bioaccumulation is not expected.

13 DISPOSAL CONSIDERATIONS

Waste Treatment & Methods of Disposal

Based on available information, this product is neither listed as a hazardous waste nor does it exhibit any of the characteristics that would cause it to be classified as a characterized hazardous waste under RCRA. This product may be absorbed onto suitable materials and disposed of in a sanitary landfill unless local, state, or provincial regulations prohibit such disposal.

14 TRANSPORTATION INFORMATION

Transport Information

Not regulated as dangerous goods per DOT or IATA.

15 REGULATORY INFORMATION

Inventory Lists

All components in this product are on the following inventory lists: USA(TSCA), Canada (DSL/NDL); Europe (EINECS)

TSCA Section 12(b)

None of the chemicals in this product are listed under TSCA Section 12(b).

CERCLA Hazardous Substances

There is no CERCLA reportable quantity for this material

SARA 311 Categories

Immediate (Acute) Health Hazard: Yes
Delayed (Chronic) Health Hazard: No
Fire Hazard: No
Sudden Release of Pressure Hazard: No
Reactivity Hazard: No

SARA 313

None of the components in this product are subject to reporting under SARA Section 313.

Clean Water Act

None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

State Right-To-Know:

This product does not contain components at levels which are required to be reported under the statutes of the following states: PA, MA, MN, & NJ.

This product does not contain materials known to the State of California (Proposition 65) to cause cancer and/or reproductive harm at levels which would require a warning under the statute.

NFPA 704

Health	1
Fire	0
Physical Hazard	0

Hazard Rating 0-4)-least hazardous; 4-most hazardous

HMIS - Hazardous Materials Identification System

Health	1
Fire	0
Physical Hazard	0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = serious, 4 = severe

16 OTHER INFORMATION

SDS Revision Date:

Revision date: 20-Jul-17
Expiration date: 21-Oct-18
Latest version of this SDS can be obtained from Cryotech.

Note to Employer:

The Safety Data Sheet contains environmental, health and toxicology information for your employees, Please ensure this information is provided to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other