MATERIAL SAFETY DATA SHEET
FOR
Liquid Snow Shovel
(CALCIUM CHLORIDE)

A. GENERAL INFORMATION

Liquid Snow Shovel Calcium Chloride
Chemical Name & Synonyms: Calcium Chloride
Formula CaCl₂
Uses Anti-icing/deicing

Manufacturer Advanced Seasonal Innovations, Llc.
17621 Van Wagoner Rd.
Spring Lake, MI 49456

B. COMPOSITION INFORMATION ON INGREDIENTS

<table>
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<tr>
<th>Approx %</th>
<th>CAS. Reg. No.</th>
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<tr>
<td>Calcium Chloride 32-38%</td>
<td>010043-52-4</td>
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<tr>
<td>Water 51-68%</td>
<td>007732-18-5</td>
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<tr>
<td>Organic proprietary stabilizer, anti-spauling agent and corrosive inhibitor 7%</td>
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C. HAZARDS IDENTIFICATION

APPEARANCE AND ODOR: Clear liquid, no odor.
EYE: Material may be handled at elevated temperatures; contact with heated material may cause thermal burns. May cause severe irritation with corneal injury. Effects may be slow to heal.

SKIN: Short single exposure is not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if confined to skin or skin is abraded (scratched or cut). Material may be handled at elevated temperatures; contact with heated material may cause thermal burns. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. Not classified as corrosive.

INGESTION: Single dose oral toxicity is believed to be low. Small amounts swallowed incidental to normal handling procedures are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion may cause gastrointestinal irritation or ulceration.

INHALATION: Vapors are unlikely due to physical properties. Mists may cause irritation to upper respiratory tract.

D. FIRST AID

EYES: Irrigate with flowing water immediately and continuously for 15 minutes. Contact medical personnel (if required).

SKIN: Wash off in flowing water or shower.
INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

E. FIRE FIGHTING MEASURES:

FLAMMABLE PROPERTIES: Not Applicable.
FLAMMABILITY LIMITS: LFL: Not Applicable UFL: Not Applicable.
HAZARDOUS COMPOSITION: Not Applicable.

PRODUCTS:

EXTINGUISHING MEDIA: This material does not burn. If exposed fire from another source, use suitable extinguishing agent for that fire.

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny any unnecessary entry.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive pressure self contained breathing apparatus (SCBA) and full protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves).

F. ACCIDENTAL RELEASE MEASURES

PROTECT PEOPLE: Isolate area. Avoid contact with eye and skin. May be a slipping hazard. Stop leak if it can be done safely. Wash exposed body areas thoroughly after handling. Use appropriate safety equipment.

PROTECT THE ENVIRONMENT: For small spills: losses incidental to correct applications of this product in intended uses are not expected to be harmful to the environment. For large spills: avoid contamination of drinking water, natural water, ground water, or any waterway. Losses incidental to correct applications of this product in its intended uses are not expected to be harmful to the environment.

CLEANUP: For small spills: contain spill if possible. Absorb with material such as sand. Collect material in suitable and properly labeled containers. Flush residue with plenty of water. For large spills: dike and transfer to suitable and properly labeled containers. Absorb with material such as sand. Flush residue with plenty of water.

G. HANDLING AND STORAGE

HANDLING: Product shipped/handled hot can cause thermal burns. Selection of specific items such as gloves, boots, apron, or other, will depend on each operation. If hands are cut or scratched, use gloves impervious to this material for brief exposures. Use gloves with insulation for thermal protection, when needed.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. In misty atmospheres, use an approved mist respirator.
H. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Clear liquid.
ODOR: None
VAPOR PRESS: 7 – 15 mmHg @ 25C, 77F
VAPOR DENSITY: Same as water.
BOILING POINT: 120 - 140 °C.
SOLUBILITY IN WATER: Completely miscible
SPECIFIC GRAVITY: 1.285 ~ 1.400@ 25C/77F

I. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable. Hygroscopic.
CONDITIONS TO AVOID: Temperature >350F
MATERIALS TO AVOID: Attack aluminum / yellow brass; react with sulfuric acid and zinc.
HAZARDOUS DECOMPOSITION: Does not decompose.
PRODUCTS:
HAZARDOUS POLYMERIZATION: Will not occur.

J. TOXICOLOGICAL INFORMATION

ACUTE: Skin: The LD50 for skin absorption in rabbits is >5000 mg/kg for CaC1₂.
INGESTION (100%): The oral LD50 for rats is in the range of 900 – 2100 mg/kg for CaC1₂.
MUTAGENICITY: For CaC1₂, in vitro mutagenicity studies were negative.

K. ECOLOGICAL INFORMATION

ECOTOXICOLOGY: Based largely or completely on data for major component(s), material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100 mg/L in most sensitive species).

L. DISPOSAL CONSIDERATIONS

DISPOSAL: Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all Federal, State and local laws and regulations. Regulations may vary in different locations. Advanced Seasonal Innovations encourages that disposal methods be utilized in accordance with the above noted. For unused or contaminated product, the preferred options include sending the material to a licensed, permitted, reclaimed or waste water treatment system.

M. TRANSPORTATION REQUIREMENTS

Proper Shipping Name: Calcium Chloride (liquid)
Hazard Classification: Not regulated when shipped domestically by land.

Notice: The data and information are presented without warranty, guarantee or liability on our part, and are presented to the customer for his own consideration, investigation and verification.