SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Magnesium Chloride Flakes
Product Use: De-icing, Anti-icing, Dust Control, Industrial
Manufacturer/Distributor: Innovative Surface Solutions
78 Orchard Road
Ajax, Ontario L1S 6L1
454 River Road
Glenmont, NY 12077
Telephone: 1-800-387-5777 1-800-257-5808
24-Hour Emergency Telephone: 1-800-424-9300
WHMIS Classification: Not controlled
Chemical Family: Inorganic salt solution

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification
Physical Health Environment
Not Hazardous Not Hazardous Not Hazardous

GHS Label Element Not Hazardous

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Components CAS # % by Weight
Magnesium Chloride Hexahydrate 7791-18-6 100.0%

SECTION 4: FIRST-AID MEASURES

Eye May cause slight eye irritation, immediately wash with water for 15 minutes. Get medical attention if irritation persists.
Skin May cause skin irritation, wash skin thoroughly with soap and water. Get medical attention if irritation develops or persists.
Ingestion Low in toxicity. May cause diarrhea and vomiting when large quantities are ingested.
Inhalation Not applicable.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media Appropriate extinguishing media. This product is not combustible. Choose media depending on surrounding fire. All extinguishing medias are allowed.
Specific Hazards Arising from the Chemical Expose to temperature above 160 C gives formation of toxic chloride gases
Protective Equipment and Precaution Protective actions and / or special protective equipment depending on surrounding fire. Aqueous solutions may cause surfaces to be extremely slippery and cause a slip hazard.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Risks and Spills Small spills can be washed away with water.
For large spills cordon off the spill area, collect and or absorb liquid with an inter absorbent and place in appropriate container for disposal. Flush spill area with water
Report releases as per local, state and federal authorities
Protective Equipment and Exposure Control See Section 9 for details
SECTION 7: HANDLING & STORAGE

Precaution for Safe Handling
Wear protective equipment and equipment. Avoid contact with eyes, skin and clothing.
Avoid breathing mist or aerosols.
Wash your skin thoroughly with soap and water after handling, if product comes in contact.

Safe Storage / Incompatibilities
Store in cool, dry, well-ventilated area away from incompatible material.
Carbon Steel, polyester, polyethylene and polypropylene are suitable material for construction.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Control
Not established, no special precaution required.

Respiratory Protection
For dusty or misty conditions, wear NIOSH approved dust or mist respirator.

Skin Protection
Wear rubber gloves, boots and long sleeve shirts.

Eye Protection
Wear safety goggles.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Physical State: Solid
Appearance | Odor: White flake / Translucent, odorless
Odor Threshold: Not established
Specific Gravity: 800-900 Kg / m³
pH: 8.2 @ 10% aqueous solution
Vapor Pressure: Not determined
Solubility in Water: 167 g / 100 g
% Volatile: Not determined
Vapor Density: Not determined

SECTION 10: STABILITY & REACTIVITY

Reactivity / Chemical Stability
Not reactive. Stable under normal storage and handling conditions.

Conditions to Avoid
Temperature below or close to product freezing point can give formation of crystals during storage.

Incompatible Material
Strong oxidizing agents, concentrated acids and some metals.

Hazardous Decomposition Products
Above 160 C product decomposes and emits hydrogen chloride, halogenated compounds and chloride gas.

SECTION 11: TOXICOLOGICAL INFORMATION

Ingestion
Ingestion may cause slight irritation with nausea, vomiting and diarrhea.

Inhalation
Inhalation of mist may cause slight irritation of nose, throat and upper respiratory tract.

Eye
May cause minor irritation with pain and tearing.

Skin
May cause slight irritation on prolonged or repeated contact.

Carcinogenicity
None of the component in the product is listed as carcinogen or suspected carcinogen by IARC, NTP or OSHA.

Reproductive Toxicity
None.

Oral (rate) LD 50
8100 mg / Kg

Appraisal
The material is classified as not toxic.

SECTION 12: ECOLOGICAL INFORMATION

Eco toxicity
Fathead minnow NOEC: 1.0 g / L
Ceriodaphnia dubia NOEC: 1.00 g / L
Selenastrum growth NOEC: 2.0 g / L

Persistence and Degradability
Not applicable.

Bio accumulative Potential
No data available.

Mobility in Soil
No data available.

Other Adverse Effects
None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental regulations.
SECTION 14: TRANSPORT INFORMATION

Proper Shipping Name: Not regulated
UN Number: None
Hazard Class / packing Group: None
Label Required: None

SECTION 15: REGULATORY INFORMATION

CERCLA
This product is not subjected to CERCLA release reporting. Many States have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311 / 312): Not Hazardous
SARA 313: None
EPA TSCA Inventory: All of the ingredients in this product are listed on the EPA TSCA Inventory.
CEPA: All the components of this product are listed on the Canadian DSL
WHMIS Classification: Not classified as dangerous.

SECTION 16: PREPARATION INFORMATION

Prepared By: Innovative Surface Solutions
Telephone: 905-427-0318
Preparation Date: June, 2017
Superseded Date: ALL PREVIOUS VERSIONS