

Safety Data Sheet

Section 1: Identification

Product Name: Green Origins

Product Form: Mixture.

Intended Use of the Product: Ice melt.

Company Identification:

Origination Inc.
1300 McKnight Road North
Maplewood, MN 55119

For information, call: 1-800-625-6079

Emergency Number: 1-800-625-6079

For CHEMTREC assistance, call: 1-800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

Section 2: Hazard(s) Identification

Classification of the Substance or Mixture GHS-US classification: Eye Irrit. 2B: H32

Hazard Symbol: GHS07



Signal word (GHS-US): Warning.

Hazard statements (GHS-US): H320- Causes eye irritation.

Precautionary statements (GHS-US): P264- wash hands thoroughly after handling. P280- Wear protective gloves/ protective clothing/ eye protection/ face protection. P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Prevention: Observe good industrial hygiene practices.

Storage: Store away from incompatible materials.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Other hazards: No additional information available.

Unknown acute toxicity (GHS-US): None.

Section 3: Composition / Information on Ingredients

Magnesium chloride 7791-30-3 1-5%

Sodium chloride 7647-14-5 95-99%

Section 4: First Aid Measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

First-aid measures after skin contact: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms and effects, both acute and delayed: Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes skin irritation.

Symptoms/injuries after eye contact: Causes eye irritation.

Indication of any immediate medical attention and special treatment needed: No additional information available.

Section 5: Fire Fighting Measures

Extinguishing Media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: None known.

Special hazards arising from the substance or mixture: No additional information available.

Advice for Firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Protective equipment: Equip cleanup crew with proper protection.

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

Reference to other sections: See Heading 8. Exposure controls and personal protection.

Section 7: Handling and Storage

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures: Wash thoroughly after handling.

Conditions for Safe Storage, Including Any Incompatibilities

Storage conditions: Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Becomes hygroscopic at 70-75% relative humidity. Avoid humid or wet conditions as product will cake and become hard.

Specific end use(s): No additional information available.

Section 8: Exposure Controls, Personal Protection

Occupational exposure limits: No exposure limits noted for ingredient(s).

Biological limit values: No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls: Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.

Exposure Controls

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear appropriate mask.

Other information: Do not eat, drink or smoke during use.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Solid.

Appearance: Chips.

Colour: White.

Odour: Characteristic.

Odour threshold: No data available.

pH: No data available.

Relative evaporation rate (butylacetate=1): No data available.

Melting point: No data available.

Freezing point: No data available.

Boiling point: No data available.

Flash point: No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: 100 °C.

Flammability (solid, gas): No data available.

Vapour pressure: No data available.

Relative vapour density at 20 °C: No data available.

Relative density: 2.16 (H₂O=1)

Solubility: Soluble

Solubility (water): 26.4%

Log Pow: No data available.

Log Kow: No data available.

Viscosity, kinematic: No data available.

Viscosity, dynamic: No data available.

Explosive properties: No data available.

Oxidising properties: No data available.

Explosive limits: No data available.

Section 10: Stability and Reactivity

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Incompatible materials: Avoid contact with strong acids. Becomes corrosive to metals when wet.

Hazardous decomposition products: May evolve chlorine gas when in contact with strong acids.

Section 11: Toxicological Information

Acute toxicity: Not classified.

Information on likely routes of exposure

Ingestion: Expected to be a low ingestion hazard.

Inhalation: Inhalation of dusts may cause respiratory irritation.

Skin contact: Prolonged or repeated skin contact may cause irritation.

Eye contact: Dust in the eyes will cause irritation.

Information on toxicological effects

Acute toxicity: In some cases of confirmed hypertension, ingestion may result in elevated blood pressure.

Components Species Test Results

Components	Species	Test Results
Sodium Chloride (CAS 7647-14-5)		
Magnesium Chloride (CAS 7791-30-3)		
Accute		
Oral		
LD50	Mouse	4,000 mg/kg
	Rat	3,000 mg/kg
Other		
LD50	Mouse	2,602 mg/kg

Skin corrosion/irritation: Not classified.

Serious eye damage/irritation: Not Classified.

Respiratory or skin sensitization: Not classified.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific target organ toxicity (single exposure): Not classified.

Specific target organ toxicity (repeated exposure): Not classified.

Aspiration hazard: Not classified.

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation: Not Classified.

Symptoms/injuries after skin contact: Not Classified.

Symptoms/injuries after eye contact: Classified.

Toxicity: No additional information available.

Section 12: Ecological Information

Ecotoxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

Components		Species	Test Results
Sodium Chloride (CAS 7647-14-5)			
Magnesium Chloride (CAS 7791-30-3)			
Aquatic			
Crustacea	EC50	Waterflea (<i>Daphnia magna</i>)	340.7 - 469.2 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (<i>Oncorhynchus mykiss</i>)	4747 - 7824 mg/l, 96 hours

Mobility in soil: No additional information available.

Other adverse effects

Effect on ozone layer: No additional information available.

Effect on the global warming: No known ecological damage caused by this product.

Other information: Avoid release to the environment.

Section 13: Disposal Considerations (non-mandatory)

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials: Avoid release to the environment.

Section 14: Transport Information

In accordance with DOT: Not regulated for transport.

Additional information: No supplementary information available.

ADR: Transport document description.

Transport by sea: No additional information available.

Air transport: No additional information available.

Section 15: Regulatory Information

US Federal Regulations: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Canada: No additional information available.

EU-Regulations: No additional information available.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC: Not classified.

National regulations: No additional information available.

US State regulations: California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

Section 16: Additional Information

Prepared by: Origination, Inc.

Prepared: October, 2015

Disclaimer:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Origination be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Origination has been advised of the possibility of such damages.