

SAFETY DATA SHEET

Section 1. Product and Company Identification

PRODUCT IDENTIFIER: Magnesium Chloride Aqueous Solution

PRODUCT NUMBER: 00101

OTHER MEANS OF IDENTIFICATION: SEA-CROP®

RECOMMENDED USE: Agricultural soil amendment.

RECOMMENDED RESTRICTIONS: None known.

MANUFACTURER: Ambrosia Technology LLC
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Section 2. Hazards Identification

PHYSICAL HAZARDS Not classified

HEALTH HAZARDS Not classified.

ENVIRONMENTAL HAZARDS Not classified.

OSHA DEFINED HAZARDS Not classified.

LABEL ELEMENTS

Hazard symbol None.

Signal word None.

Hazard statement The substance does not meet the criteria for classification.

PRECAUTIONARY STATEMENT

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

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

HAZARD(s) not otherwise classified (HNOC) None known.

SUPPLEMENTAL INFORMATION Not applicable.

Section 3. Composition/Information on Ingredients

MIXTURE

COMPOSITION COMMENTS: The criteria for listing components in this section are: Carcinogens, Respiratory Sensitizers, Mutagens, Teratogens and Reproductive toxins are listed when present at 0.1% or greater; components which are otherwise hazardous according to WHMIS/OSHA are listed when present at 1.0% or greater. Non hazardous components are not listed. The products pertaining to this SDS have various proportions of components which do not meet the listing criteria.

Section 4. First Aid Measures

INHALATION If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

SKIN CONTACT Rinse skin with water/shower. Get medical attention if irritation develops and persists.

EYE CONTACT	Rinse with water. Get medical attention if irritation develops and persists.
INGESTION	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED	Direct contact with eyes may cause temporary irritation.
INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	Treat symptomatically.
GENERAL INFORMATION	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5. Fire Fighting Measures

SUITABLE EXTINGUISHING MEDIA	Treat for surrounding material.
UNSUITABLE EXTINGUISHING MEDIA	None known.
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	During fire, gases hazardous to health may be formed.
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
FIRE-FIGHTING EQUIPMENT/INSTRUCTIONS	Use standard firefighting procedures and consider the hazards of other involved materials.
SPECIFIC METHODS	Cool containers exposed to flames with water until well after the fire is out.
GENERAL FIRE HAZARDS	No unusual fire or explosion hazards noted.
HAZARDOUS COMBUSTION PRODUCTS	May include and are not limited to: Hydrogen chloride. Chlorine gas. Oxides of magnesium.
EXPLOSION DATA	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available.

Section 6. Accidental Release Measures

PERSONAL PRECAUTIONS,	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	Avoid contact with eyes, skin and clothing. Use good industrial hygiene practices in handling this material.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. For waste disposal see section 13 of the SDS.
ENVIRONMENTAL PRECAUTIONS	Avoid discharge into drains, water courses or onto the ground.

Section 7. Handling and Storage

PRECAUTIONS FOR SAFE HANDLING	Avoid contact with eyes, skin and clothing. Use good industrial hygiene practices in handling this material.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	Keep container tightly closed in a cool, dry and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

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	<p>TWA PEL: No specific limits have been established for magnesium chloride (a soluble substance). 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): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.</p> <p>TWA TLV: No specific limits have been established for magnesium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV 3mg/cu.m. Respirable Particulate TWA TLV.</p> <p>Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If user operations generate dust, fumes, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.</p>
INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT	
Eye/face protection	Safety glasses
Skin protection	
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Other	As required by employer code.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator or NIOSH-approved filtering facepiece.
Thermal hazards	Not applicable.
General hygiene Considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9. Physical and Chemical Properties

APPEARANCE	Liquid
PHYSICAL STATE	Liquid.
FORM	Crystalline.
COLOR	Colorless to Light amber
ODOR	Odorless
ODOR THRESHOLD	Not available.
pH	7.0 – 7.5 (5% solution)

MELTING POINT/FREEZING POINT	-1 °F (-18.33 °C) (30% solution, periodically mixed to ensure homogeneity)
INITIAL BOILING POINT AND BOILING RANGE	Not applicable 225 °F (107.22 °C)
POUR POINT	Not available.
SPECIFIC GRAVITY	1.12 (H2O = 1)
PARTITION COEFFICIENT (N-OCTANOL/WATER)	Not available.
FLASH POINT	Not available.
EVAPORATION RATE	Not available.
FLAMMABILITY (SOLID, GAS)	Not applicable.
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	
Flammability limit – lower (%)	Not available.
Flammability limit – upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
VAPOR PRESSURE	Not available.
VAPOR DENSITY	Not available.
RELATIVE DENSITY	Not available.
SOLUBILITY(IES)	Easily soluble in cold water, hot water, methanol, acetone.
AUTO-IGNITION TEMPERATURE	Not available.
DECOMPOSITION TEMPERATURE	Not available.
VISCOSITY	Not available.

Section 10. Stability and Reactivity

REACTIVITY	Reactive with oxidizing agents, acids, metals in presence of moisture.
POSSIBILITY OF HAZARDOUS REACTIONS	No dangerous reaction known under conditions of normal use.
CHEMICAL STABILITY	Material is stable under normal conditions.
CONDITIONS TO AVOID	Contact with incompatible materials.
INCOMPATIBLE MATERIALS	Acids. Strong oxidizing agents. Metals.
HAZARDOUS DECOMPOSITION PRODUCTS	May include and are not limited to: Hydrogen chloride. Chlorine gas. Oxides of magnesium.

Section 11. Toxicological Information

INFORMATION ON LIKELY ROUTES OF EXPOSURE

Ingestion	Expected to be a low ingestion hazard.
Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS
Direct contact with eyes may cause temporary irritation.

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY Not classified.

SKIN CORROSION/IRRITATION	Prolonged skin contact may cause temporary irritation.
Exposure minutes	Not available.
Erythema value	Not available.
Oedema value	Not available.
SERIOUS EYE DAMAGE/EYE IRRITATION	Direct contact with eyes may cause temporary irritation.
Corneal opacity value	Not available.
Iris lesion value	Not available.
Conjunctival reddening value	Not available.
Conjunctival oedema value	Not available.
Recover days	Not available.
RESPIRATORY OR SKIN SENSITIZATION	
Respiratory sensitization	Not classified.
Skin sensitization	This product is not expected to cause skin sensitization.
GERM CELL MUTAGENICITY	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
MUTAGENICITY	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
CARCINOGENICITY	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
REPRODUCTIVE TOXICITY	This product is not expected to cause reproductive or developmental effects.
TERATOGENICITY	Not classified.
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	Not classified.
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	Not classified.
ASPIRATION HAZARD	Not classified.
CHRONIC EFFECTS	Not classified.
FURTHER INFORMATION	This product has no known adverse effect on human health.
NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS	Not available.

Section 12. Ecological Information

ECOTOXICITY	May be harmful to freshwater aquatic species and to plants that are not saline tolerant.
PERSISTENCE AND DEGRADABILITY	No data is available on the degradability of this product.
BIOACCUMULATIVE POTENTIAL	No data available.
MOBILITY IN SOIL	No data available.
MOBILITY IN GENERAL	Not available.
OTHER ADVERSE EFFECTS	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13. Disposal Considerations

DISPOSAL INSTRUCTIONS	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
LOCAL DISPOSAL REGULATIONS	Dispose in accordance with all applicable regulations.
HAZARDOUS WASTE CODE	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

WASTE FROM RESIDUES / UNUSED PRODUCTS Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

CONTAMINATED PACKAGING Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14. Transport Information

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

Not regulated as dangerous goods.

TRANSPORTATION OF DANGEROUS GOODS (TDG - CANADA)

Not regulated as dangerous goods.

Section 15. Regulatory Information

CANADIAN FEDERAL REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

WHMIS STATUS

Not Controlled

US FEDERAL REGULATIONS

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

Hazard categories

Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance – No

SARA 311/312 Hazardous chemical - No

SARA 313 (TRI reporting) - Not regulated.

OTHER FEDERAL REGULATIONS

Safe Drinking Water Act (SDWA) - Not regulated.

Food and Drug Administration (FDA) - Total food additive
Direct food additive
GRAS food additive

US STATE REGULATIONS

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance - Not listed.

US. Massachusetts RTK - Substance List - Not regulated.

US. Pennsylvania RTK - Hazardous Substances - Not regulated.

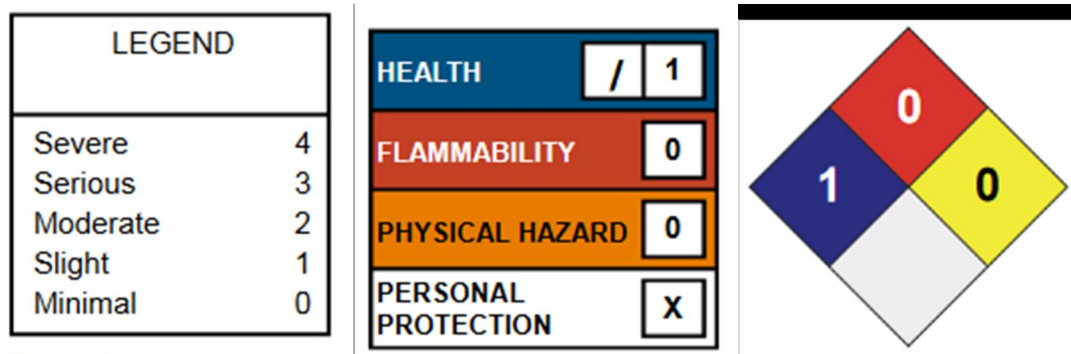
US. Rhode Island RTK - Not regulated.

INVENTORY STATUS

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
	United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Section 16. Other Information



DISCLAIMER

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document

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EXPIRY DATE 15-January-2021

FURTHER INFORMATION For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

PREPARED BY Ambrosia Technology LLC, Phone: (360) - 942-5698

OTHER INFORMATION This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard