



Safety Data Sheet

ElastoCrete Stabilizer Liquid

1. Product and Company Identification

Product identifier	Magnesium Chloride Aqueous Solution
Other means of identification	Polymer modified liquid proprietary blend
Recommended use	For use with ElastoCrete Cement Blend
Recommended restrictions	None known.
Manufacture	Elasto Crete LLC 3801 East Roeser Road, Unit 6 Phoenix Arizona 85040

2. Hazard Identification

Physical hazards	Not classified
Health hazards	Not classified
Environmental hazards	Not classified
OSHA defined hazards	Not classified
Label elements	
Hazard symbol	None
Signal ward	None
Hazard statement	The substance does not meet the criteria for classifications.
Precautionary statement	
Prevention	Observed 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
Hazards not otherwise classified	None known
Supplement information	Not applicable

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.

4. First Aide Measures

Inhalation	If breathing is difficult, remove fresh air in keep at rest in a position comfortable for breathing.
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 large amount does occur, call a poison control center immediately.
Most important synopsis/ 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 or materials involved, and take precautions to protect themselves.

5. First Fighting Measures

Suitable extinguishing media	Treat for surrounding material.
Unsuitable extinguishing media	None known.
Specific hazards or arising from the chemical	during fire, gases hazardous to health maybe 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 precautions and consider the hazards of other involved materials.
Special 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: Hydrochloride. Chlorine gas. Oxides of magnesium.
Explosion data	
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

6. Accidental Release Measures

Personal precautions protective equipment an emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Before attempting cleanup, referred to hazard data given above. Small spills maybe absorbed with nonreactive absorbent and placed in suitable, covered, label containers. Prevent large spills from entering sewers or waterways. Contact emergency service and supplier for device. For waste disposal, C-section 13 of the SDS.
Environmental precautions	Avoid discharge into drainage, water courses or onto the ground.

7. Handling and Storage

Precautions for safe handling	Avoid eye contact with eyes, skin and clothing. Use good industrial hygiene practices in handling this material.
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Conditions for safe storage, including any incompatibilities

keep container tightly close in a cool, dry and well-ventilated place.
Store away from incompatible materials (see section 10 of the STS)

8. Exposure Controls/Personal Protection

Occupational exposure limits

No exposure limits noted for ingredients.

Biological limit values

No biological exposure limits noted for the ingredients.

Appropriate engineering controls

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.

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.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses

Skin protection

Hand protection

Rubber gloves. Confirm with the reputable supplier first.

Other

As required by employer code.

Respiratory protection

Where exposure guidelines levels may be exceeded, using approved NIOSH respirator or an NIOSH – approved filtered face piece.

Thermal hazards

Non-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 washed work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

Appearance

Liquid

Physical state

Liquid

Form

Crystalline

Color

colorless to light amber

Odor

Odorless

Odor threshold

Not available.

pH

7-9 (5% solution)

Melting point/freezing point

-1 F (-18.33 c) (30% solution, periodically mixed to ensure homogeneity)

Initial boiling point and boiling

Not applicable

Range

225 F (107.22 c)

Pour point	Not available.
Specific gravity	1.24 – 1.34 (H ₂ O = 1)
Partition coefficient (n-octanol/water)	Not available.
Flashpoint	Not available.
Evaporation rate	Not available.
Flammability (solid/gas)	Not available.
Upper lower flammability or explosive limits	Not available.
Flammability limit– Lower %	Not available.
Flammability limit – upper %	Not available.
Explosive limit– lower %	Not available.
Explosive limit– upper %	Not available.
Vapor pressure	Not available.
Paper density	Not available.
Related density	Not available.
Solubilities	Easily soluble and cold water, hot water, methanol, acetone.
Auto ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and Reactivity

Reactivity	Reactive with oxidizing agents, acids, metals and presence of moisture.
Possibility of hazardous reactions	No dangerous reactions known under condition 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.

11. Toxicological Information

Information unlikely 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 I may cause temporary irritation.
Symptoms related to physical, chemical and toxicological characteristics	
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.
Recovery days	Not available.

Respiratory or skin sensitization	
Respiratory sensitization	Not classified.
Skin sensitization	This product is not expected to cause skin sensation.
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 Synergetic products	Not classified.

12. Ecological Information

Ecotoxicity	May be harmful to freshwater aquatic species enter plans that are non-saline tolerant
Persistence and degradability	No data is available on the degrade ability of this product.
Bio accumulative 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.

13. Disposal Consideration

Disposable instructions	Collect and reclaim or dispose in sealed containers at license waste disposal site
Local disposal regulations	Dispose of in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned and 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 containers must be disposed of in a safe manner (see disposal instructions)

Contaminated packaging	Empty container should be taken to improve waste handling site for recycling or disposal. Since empty containers may retain product residue, follow label warnings even after container is empty
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14. Transport Information

U.S. department of transportation (DOT)

Not regulator as dangerous goods.

Transportation of dangerous goods (TDG – Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the controlled products regulation and SDS the contains all the information required by the controlled products regulations.

WHMIS status

Not controlled

US federal regulation

TSCA Section 12b Export Notification (40 CFR 707, Subt. 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 regulation

SDWA

Not regulated

Food and drug

Total food additive

Administration (FDA)

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 - hazardous substance

Not regulated.

US – Rhode Island RTK

Not regulated.

Inventory status

Country(s) or region

Canada

Inventory name

domestic substance list (DSL)

on inventory(yes/no)*

yes

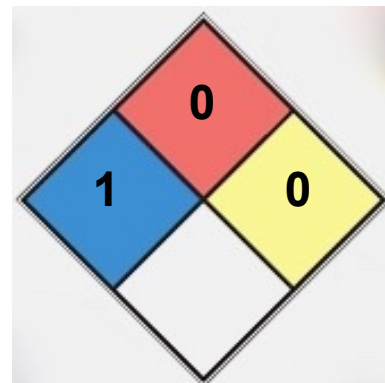
Canada	non-domestic substance list (NDSL)	no
United States and Puerto Rico	toxic substance control act (TSCA)	yes

*A "yes" indicates that all components of this product comply with the inventory requirements administered by the governing countries

16. Other Information

Legend	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



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.

Issue date	16 – January – 2015
Effective date	15 – January – 2015
Further information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.
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.