

Safety Data Sheet

Health - 1 Reactivity - 0 Flammability - 0

Product Name: *NexGen Torch* Anti-Icing and De-Icing Liquid

Date Prepared: August 21, 2015

1. Product and Company Identification

Product Name: *NexGen Torch* Anti-Icing and De-Icing Liquid

Manufacturer: GMCO Corporation

Address: P.O. Box 1480

Rifle, CO 81650

Contact: Greg Leist

Telephone: (303) 986-7871

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 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.

3. Composition - Information on Ingredients

<u>Component</u>	<u>%</u>	<u>CAS #</u>
Magnesium chloride solution	27 to 30%	7786-30-3
Triethanolamine	<1%	102-71-6
Freeze point enhancer	Proprietary	Proprietary
Water	65 to 70%	7732-18-5

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 product represented by this SDS does not meet the listing criteria.

4. First Aid Measures

Eye Contact: Direct contact with eyes may cause temporary irritation. Flush with water for several minutes, get medical attention if irritation persists. Remove contact lenses, if present, and continue to flush.

Skin Contact: Wash exposed area with soap and water, remove and launder contaminated clothing before reuse. Seek medical attention if irritation persists. Discard items which cannot be decontaminated, including leather articles.

Ingestion: Rinse mouth. If copious quantities ingested, call a physician.

Inhalation: Remove to fresh air. If irritation persists, call a physician.

General Information: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable Properties: Product will not burn as long as remains in liquid state.

Extinguishing Media: Treat for surrounding materials.

Hazardous Combustion

Products: These may include but not limited to: Hydrogen chloride, Chlorine gas, Oxides of magnesium. Pressure may develop in closed containers if temperatures exceed 190° F. May use direct water spray to cool containers.



Advice for

firefighters: Follow generally accepted procedures for fighting chemical fires.

Personal Protection

of Firefighters: Wear full protection and breathing apparatus as deemed necessary for surrounding materials and fire. Protect containers from heat/boiling.

6. Accidental Release Measures

Keep persons not involved in cleanup away from spill area until cleanup is completed. Prevent the spread of spill with diking and/or absorbent materials. Pump liquid if possible, into salvage containers. Absorb remaining liquid with floor absorbent or other absorbent materials. Remove contaminated absorbent to disposal containers. Dispose as solid waste per appropriate regulations. Refer to Section 7 and 8 for additional handling and exposure information. See Section 13 for additional disposal information.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, for additional Ecological Information.

7. Handling and Storage

General Handling: Avoid contact with skin, eyes, and clothing. Do not breath mist or take internally. Use good industrial hygiene practices in handling this material.

Storage: Specific storage requirements, not normally indicated. Recommend storage in bulk covered containers that are vented. Recommend storage away from strong oxidizing agents or strong acids at temperatures between 50°F and 100°F.

8. Exposure Controls / Personal Protection



Occupational Exposure Limits: No exposure limits noted for ingredient(s) at these concentrations.

Biological Exposure Limits: No exposure limits noted for ingredient(s) at these concentrations.

Personal Protection:

Eye/Face Protection: Use safety glasses with side shields.

Skin Protection: When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

Hand Protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur.

Respiratory Protection: For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator such as an organic vapor cartridge.

Engineering & Personal Protection: 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. Particulate Not Otherwise Regulated (PNOR) : 5mg/cu.m. Inhalable Particulate 8-Hour TWA PEL, 15 mg/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. Particulate (insolubles) Not Otherwise Classified (PNOC) : 10mg/cu.m. Inhalable Particulate 8-Hour TWA TLV, 3 mg/cu.m.

9. Physical and Chemical Properties

Appearance: Liquid

Physical state: Liquid



<u>Color:</u>	Colorless to light amber.
<u>Odor:</u>	Odorless
<u>pH:</u>	7 - 9 (5%) solution
<u>Melting Point:</u>	N/A
<u>Freeze Point:</u>	-72° F as shipped
<u>Boiling Point:</u>	> 212° F
<u>Pour Point:</u>	Not applicable
<u>Specific Gravity:</u>	1.249 - 1.34 @ 77° F
<u>Flash Point:</u>	No test data available
<u>Evaporation Rate:</u>	Not available
<u>Flammability:</u>	Not flammable
<u>Vapor Pressure:</u>	Not available
<u>Solubility in Water:</u>	Easily soluble in cold water, hot water, methanol, acetone
<u>Auto-ignition Temp:</u>	Not available
<u>Decomposition Temp:</u>	Not available
<u>Viscosity:</u>	Not available

10. Stability & Reactivity

<u>Reactivity:</u>	Reactive with oxidizing agents, acids, metals in presence of moisture.
<u>Possibility of hazardous reactions:</u>	No dangerous reaction known under conditions of normal use.
<u>Chemical Stability:</u>	Stabile under normal storage conditions.
<u>Conditions to avoid:</u>	Contact with incompatible materials.
<u>Incompatibilities:</u>	Avoid contact with strong oxidizing agents, strong acids and metals.
<u>Decomposition:</u>	May include and are not limited to: Hydrogen chloride, Chlorine gas, Oxides of magnesium.



11. Toxicological Information

Information on likely routes of exposure:

Ingestion	Expected to be 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 eye contact 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	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 sensitization



Mutagenicity	Non-hazardous by WHMIS/OSHA criteria
Carcinogenicity	Not classified or listed by IARC, NTP, OSHA and ACGIH
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria
Partition coefficient	Not available
Chronic effects	Non-hazardous by WHMIS/OSHA criteria
Name of Toxicologically	
Synergistic Products	Not available

12. Ecological Information

Ecotoxicity	May be harmful to freshwater aquatic species and to plants that are not saline tolerant.
Persistence / degradability	No data is available on the degradability of this product.
Bioaccumulation potential	No data available
Mobility in soil	No data available
Mobility in general	No data 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 Considerations

Do not dump into sewers, on the ground, or into any body of water. All disposal practices must be in compliance with all Federal, State and local laws and regulations.

After drying, may be disposed as solid waste. Product collected using absorbent materials may be disposed in landfills as solid waste in accordance with applicable regulations.



14. Transportation Information

Not regulated or restricted under current U.S. DOT regulations. No placard required.

15. Regulatory Information

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
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)

16. Other Information

Hazard Rating:

Health	1	0 - Least
Fire	0	1 - Slight
Reactivity	0	2 - Moderate
Other	-	3 - High
		4 - Extreme

Hazard Reporting Method: NFPA

Date Originally Prepared: August 21, 2015

Identified Uses: To be used only as magnesium chloride based liquid roadway de-icer.



Disclaimer:

The product information contained herein is believed to be accurate as of the date of the Safety Data Sheet, and is provided without warranty, expressed or implied, as to the results of use of this information or the product to which it relates. Recipient assumes all responsibility for the use of the information and the use (alone or in combination with any other product), storage or disposal of the product, including any resultant personal injury or property damage.

