



**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identity:** BetterBrine™

**Chemical Name:** Sodium chloride solution plus proprietary salt brine enhancer/inhibitor

**Recommended use of the chemical and restrictions on use:** Road anti-icing and de-icing.

**Manufacturer:** EnviroTech Services, Inc.  
910 54<sup>th</sup> Avenue Suite 230  
Greeley, CO 80634

**Telephone:** (970) 346-3900

**Emergency Phone: CHEMTREC: (800) 424-9300**

**SDS Date of Preparation:** 10/24/2016

**2. HAZARDS IDENTIFICATION**

**GHS Classification:**

Physical	Health	Environment
Not Hazardous	Not Hazardous	Not Hazardous

**GHS Label Elements:**

None Required

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS No.	Amount
AMP® Proprietary Enhancer	Proprietary	5 - 15%
Sodium Chloride	7791-18-6	15 - 22%
Magnesium Chloride	7786-30-3	0.5 - 2%
Calcium Chloride	10043-52-4	0.4 – 1.2%
Water	7732-18-5	65-80%

**The exact concentration is being withheld as a trade secret.**

#### 4. FIRST AID MEASURES

**Eye:** Flush victim's eyes with water while holding the eyelids apart. Get medical attention if irritation occurs and persists.

**Skin:** Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Remove and launder clothing before reuse.

**Ingestion:** Do not induce vomiting unless directed to do so by a medical professional. Rinse mouth with water and give one glass of water to drink. Do not give liquids to an unconscious person. Get medical attention if symptoms develop.

**Inhalation:** If symptoms occur, remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.

**Most important Symptoms:** May cause slight eye irritation. Dust may cause slight respiratory tract irritation.

**Indication of immediate medical attention/special treatment:** Immediate medical attention is not required.

#### 5. FIRE FIGHTING MEASURES

**Suitable (and Unsuitable) Extinguishing Media:** Use media appropriate for surrounding fire. Cool fire exposed containers and structures with water.

**Specific hazards arising from the chemical:** Thermal decomposition may yield chloride gas, oxides of carbon and sodium, and other harmful or irritating chemicals.

**Special Protective Equipment and Precautions for Fire-Fighting Instructions:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Aqueous solutions may cause surfaces to be extremely slippery and cause a slip hazard.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Wear appropriate protective clothing as described in Section 8. Wash thoroughly after handling.

**Methods and Materials for Containment and Cleaning Up:** Sweep up material and collect in a suitable container for disposal. Flush spill area with water. Report releases as required by local, state, and federal authorities.

#### 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with the eyes, skin, and clothing. Avoid breathing dusts. Wear protective clothing and equipment as described in Section 8. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store in a cool, dry, well-ventilated area away from incompatible materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines:

AMP	None Established
Sodium Chloride	None Established

**Engineering Controls:** Use with adequate general ventilation to minimize exposures.

**Respiratory Protection:** In operations where exposure levels are excessive, a NIOSH approved respirator with dust cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

**Skin Protection:** Wear impervious gloves such as rubber or neoprene if needed to avoid prolonged skin contact.

**Eye Protection:** Safety glasses recommended.

**Other:** Long-sleeved clothing and long pants recommended to avoid prolonged skin contact. Suitable washing facilities should be available in the work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance And Odor:** Clear to amber liquid with low to no odor.

<b>Physical State:</b> Liquid	<b>Specific Gravity:</b> 1.15-1.25
<b>Vapor Density:</b> Not determined	<b>Initial Boiling Point/Range:</b> Not established
<b>Solubility In Water:</b> >95% at 20°C	<b>Vapor Pressure:</b> Not determined
<b>Relative Density:</b> Not determined	<b>Evaporation Rate:</b> Not determined
<b>Melting/Freezing Point:</b> Not determined	<b>pH:</b> 6-9
<b>VOC Content:</b> Not determined	<b>Octanol/Water Coefficient:</b> Not determined
<b>Solubility (other):</b> Not determined	<b>Decomposition Temperature:</b> Not determined
<b>Viscosity:</b> <100cP at 20°C	<b>Flammability (solid, gas):</b> Not flammable
<b>Flashpoint:</b> Not applicable	<b>Autoignition Temperature:</b> Not determined
<b>Flammable Limits: LEL:</b> Not determined	<b>UEL:</b> Not determined

## 10. STABILITY AND REACTIVITY

**Reactivity:** Not normally reactive.

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** None known.

**Conditions to Avoid:** None known.

**Incompatible Materials:** Strong oxidizing agents, concentrated acids, and some metals.

**Hazardous Decomposition Products:** When heated to decomposition emits carbon and sodium oxides, hydrogen chloride, halogenated compounds, and chlorine gas.

## 11. TOXICOLOGICAL INFORMATION

### HEALTH HAZARDS:

**Ingestion:** Ingestion may cause slight irritation.

**Inhalation:** Inhalation may cause slight irritation of the nose, throat, and upper respiratory tract.

**Eye:** May cause slight irritation.

**Skin:** May cause slight irritation on prolonged or repeated contact.

**Sensitization:** This material is not known to cause sensitization.

**Chronic:** None known.

**Carcinogenicity:** None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP, or OSHA.

**Germ Cell Mutagenicity:** None currently known.

**Reproductive Toxicity:** None currently known.

### Numerical Measures of Toxicity:

No toxicity data available

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

For Sodium Chloride ingredient at >99%:

LC50 (Pimephales promelas): 6020-7070 mg/L [static]

LC50 (Pimephales promelas): 7050 mg/L [semi-static]

EC50 (Daphnia magna): 1000 mg/L

**Persistence and Degradability:** Biodegradation is not applicable to inorganic substances.

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** No data available

**Other Adverse Effects:** None known

## 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state, and federal environmental regulations.

## 14. TRANSPORT INFORMATION

### DOT Hazardous Materials Description:

Proper Shipping Name: Not regulated

UN Number: None

Hazard Class/Packing Group: None

Labels Required: None

## 15. REGULATORY INFORMATION

**CERCLA:** This product is not subject 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:** This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372): None

**EPA TSCA Inventory:** All of the ingredients in this product are listed on the EPA TSCA Inventory.

### **CANADA:**

This product has been classified under the CPR and this SDS discloses information elements required by the CPR.

**Canadian CEPA:** All the components of this product are listed on the Canadian DSL.

**Canadian WHMIS Classification:** Not classified as dangerous.

## 16. OTHER INFORMATION

**NFPA Rating:** Health = 0      Flammability = 0      Instability = 0  
**HMIS Rating:** Health = 1      Flammability = 0      Physical Hazard = 0

SDS Revision History:  
10/24/2016: New SDS

**Disclaimer:** *This Safety Data Sheet (SDS) is provided in response to customer requests to address the safe handling of the product. All statements, technical information and recommendations contained herein are the best of our knowledge, reliable and accurate. This SDS is not intended to make any representation as to how the product will perform when used for its intended purpose by a user. In that regards the product is sold "AS IS" and nothing in this SDS should be deemed to be a representation or warranty of any injury, loss, or damage, of any kind or nature, which are sustained by or arise from the use of the product. Nothing in this SDS is intended to be a representation or warranty by the manufacturer of the accuracy, safety, or usefulness for any purpose of any technical information, materials, techniques, or practices.*

*The information contained in this Safety Data Sheet is, to the best of our knowledge, accurate and reliable. This information should be provided to all individuals handling this product. Federal, state, and local regulations should be followed when handling this product.*