



A UTC Fire & Security Company

# MATERIAL SAFETY DATA SHEET

## Loaded Stream (Anti-Freeze) Solution (Fire Extinguishing Agent)

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING

**Product Name** Loaded Stream (Anti-Freeze) Solution (Fire Extinguishing Agent)  
**Other Trade Names** Potassium Acetate  
**Product Description** Fire Extinguishing Agent  
**Manufacturer/Supplier** Badger Fire Protection  
**Address** 944 Glenwood Station Lane, Suite 303  
Charlottesville, VA 22901  
USA  
**Phone Number** (434)-964-3200  
**Chemtrec Number** (800) 424-9300  
**(for emergencies only)** (703) 527-3887 (International)  
**Revision Date:** February 9, 2012  
**MSDS Date:** January 15, 2007

*Safety Data Sheet according to EC directive 2001/59/EC and OSHA's Hazcom Standard (29 CFR 1910.1200)*

### 2. HAZARDS IDENTIFICATION

**EU Main Hazards**  
Non Hazardous Liquid

#### Routes of Entry

- Eye contact - Inhalation - Skin contact

#### Carcinogenic Status

Not considered carcinogenic by NTP, IARC, and OSHA.

#### Target Organs

- Respiratory System - Skin - Eye

#### Health Effects - Eyes

Contact for short periods of time may cause irritation.

#### Health Effects - Skin

Contact may cause mild irritation.

#### Health Effects - Ingestion

Ingestion is not an expected route of exposure.

#### Health Effects - Inhalation

May irritate the respiratory tract. May cause transient cough and shortness of breath.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS#/Codes	Concentration	R Phrases	EU Classification
Potassium Acetate	127-08-2 EC#2048222	33-50%	None	None
Water	7732-18-5 EC#2317912	>50%	None	None



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#### 4. FIRST AID MEASURES

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##### **Eyes**

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

##### **Skin**

Wash affected area with soap and water. Obtain medical attention if irritation persists.

##### **Ingestion**

Dilute by drinking large quantities of water and obtain medical attention.

##### **Inhalation**

Move victim to fresh air. Obtain medical attention immediately for any breathing difficulty.

##### **Advice to Physicians**

Treat symptomatically.

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#### 5. FIRE - FIGHTING MEASURES

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##### **Extinguishing Media**

This preparation is used as an extinguishing agent and therefore is not a problem when trying to control a blaze. Use extinguishing agent appropriate to other materials involved. Keep pressurized extinguishers and surroundings cool with water spray as they may rupture or burst in the heat of a fire.

##### **Unusual Fire and Explosion Hazards**

Pressurized containers may explode in heat of fire.

##### **Protective Equipment for Fire-Fighting**

Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

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#### 6. ACCIDENTAL RELEASE MEASURES

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Contain and absorb using appropriate inert material. Transfer into suitable containers for disposal. Prevent skin and eye contact. Wear appropriate protective equipment. Prevent large quantities of the material from entering drains or watercourses.

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#### 7. HANDLING AND STORAGE

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Pressurized extinguishers should be properly stored and secured to prevent falling or being knocked over. Do not drag, slide or roll extinguishers. Do not drop extinguishers or permit them to strike against each other. Never apply flame or localized heat directly to any part of the extinguisher or plastic container. Store pressurized extinguishers and plastic containers away from high heat sources. Storage area should be: - cool - dry - well ventilated - under cover - out of direct sunlight

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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##### **Occupational Exposure Standards**

Occupational exposure limits are listed below, if they exist.

##### **Potassium Acetate**

None



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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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##### Engineering Control Measures

Use with adequate ventilation. There should be local procedures for the selection, training, inspection and maintenance of this equipment. When used in large volumes, use local exhaust ventilation.

##### Respiratory Protection

Not normally required.

##### Hand Protection

Not normally needed when used as a portable fire extinguisher. Use gloves if irritation occurs.

##### Eye Protection

Chemical goggles or safety glasses with side shields.

##### Body Protection

Normal work wear.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State	Liquid
Color	Clear
Odor	Odorless
Specific Gravity	1.19-1.24
Boiling Range/Point (°C/F)	100/212
Flash Point (PMCC) (°C/F)	Not Flammable
Solubility in Water	soluble
Vapor Density (Air = 1)	Not applicable
Vapor Pressure	Not applicable
Evaporation Rate	Not applicable

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#### 10. STABILITY AND REACTIVITY

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##### Stability

Stable under normal conditions.

##### Conditions to Avoid

Heat - High temperatures - Exposure to direct sunlight

##### Materials to Avoid

Strong oxidizing agents

##### Hazardous Polymerization

Will not occur.

##### Hazardous Decomposition Products

Oxides of carbon - potassium

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#### 11. TOXICOLOGICAL INFORMATION

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##### Acute Toxicity

Low order of acute toxicity.



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#### 11. TOXICOLOGICAL INFORMATION

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**Chronic Toxicity/Carcinogenicity**

This product is not expected to cause long term adverse health effects.

**Genotoxicity**

This product is not expected to cause any mutagenic effects.

**Reproductive/Developmental Toxicity**

This product is not expected to cause adverse reproductive effects.

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#### 12. ECOLOGICAL INFORMATION

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**Mobility**

No relevant studies identified.

**Persistence/Degradability**

No relevant studies identified.

**Bio-accumulation**

No relevant studies identified.

**Ecotoxicity**

No relevant studies identified.

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#### 13. DISPOSAL CONSIDERATIONS

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Dispose of container in accordance with all applicable local and national regulations. Do not cut, puncture or weld on or near to the container. No harm to the environment is expected from this preparation.

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#### 14. TRANSPORT INFORMATION

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<b>DOT CFR 172.101 Data</b>	Not regulated
<b>UN Proper Shipping Name</b>	Not regulated
<b>UN Class</b>	None
<b>UN Number</b>	None
<b>UN Packaging Group</b>	None

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#### 15. REGULATORY INFORMATION

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**EU Label Information**

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments(2001/60/EC and 2006/8/EC)

**EU Hazard Symbol and Indication of Danger.**

This preparation is not classified as dangerous.

**R phrases**

None



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#### 15. REGULATORY INFORMATION

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##### S phrases

None.

<b>US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS</b>
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##### TSCA Listing

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Substance Inventory.

##### EINECS Listing

All ingredients in this product are listed on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.

##### DSL/NDSL (Canadian) Listing

All ingredients in this product are listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt from listing.

##### WHMIS Classification

D2B

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

##### MA Right To Know Law

All components have been checked for inclusion on the Massachusetts Substance List (MSL). Those components present at or above the de minimus concentration include: none

##### PA Right To Know Law

This product contains the following chemicals found on the Pennsylvania Hazardous Substance List: - none

##### NJ Right To Know Law

This product contains the following chemicals found on the NJ Right To Know Hazardous Substance List: None

##### California Proposition 65

This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

##### SARA Title III Sect. 302 (EHS)

This product does not contain any chemicals subject to SARA Title III Section 302.

##### SARA Title III Sect. 304

This product does not contain any chemicals subject to SARA Title III Section 304.

##### SARA Title III Sect. 311/312 Categorization

- Immediate (Acute) Health Hazard

##### SARA Title III Sect. 313

This product does not contain any chemicals that are listed in Section 313 at or above de minimis concentrations.



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#### 16. OTHER INFORMATION

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##### **NFPA Ratings**

NFPA Code for Health - 1  
NFPA Code for Flammability - 0  
NFPA Code for Reactivity - 0  
NFPA Code for Special Hazards - None

##### **HMIS Ratings**

HMIS Code for Health - 1  
HMIS Code for Flammability - 0  
HMIS Code for Reactivity - 0  
HMIS Code for Personal Protection - See Section 8

##### **Abbreviations**

N/A: Denotes no applicable information found or available  
CAS#: Chemical Abstracts Service Number  
ACGIH: American Conference of Governmental Industrial Hygienists  
OSHA: Occupational Safety and Health Administration  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
STEL: Short Term Exposure Limit  
NTP: National Toxicology Program  
IARC: International Agency for Research on Cancer  
R: Risk  
S: Safety

**Prepared By:** EnviroNet LLC.

The information contained herein is based on data believed to be accurate. However, no representation, warranty, or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for its own particular use. Badger Fire Protection assumes no responsibility for personal injury or property damage resulting from use, handling or from contact with this product.

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