1. **IDENTIFICATION**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Loaded Stream (Anti-Freeze) AC-40 Dry Charge (Fire Extinguishing Agent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Names</td>
<td>Potassium Acetate</td>
</tr>
</tbody>
</table>

**Recommended use of the chemical and restrictions on use**

- **Identified uses**: Fire Extinguishing Agent
- **Restrictions on use**: Consult applicable fire protection codes

**Company Identification**

Badger Fire Protection  
8767 Seminole Trail, Suite 202  
Ruckersville, VA  22968  
USA

**Customer Information Number**  
(434)-964-3200

**Emergency Telephone Number**

- (800) 424-9300  
- (703) 527-3887 (International)

**Issue Date**  
November 23, 2016

**Supersedes Date**  
October 1, 2015

Safety Data Sheet prepared in accordance with OSHA’s Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. **HAZARD IDENTIFICATION**

**Hazard Classification**

This product is classified as not hazardous in accordance with the Globally Harmonized System of Classification and Labelling (GHS).

**Label Elements**

- **Hazard Symbols**: None

**Signal Word**: None

**Hazard Statements**

None

**Precautionary Statements**

**Prevention**

None

**Response**

None

**Storage**

None

**Disposal**

None

**Other Hazards**

None
2. **HAZARD IDENTIFICATION**

**Specific Concentration Limits**
The values listed below represent the percentages of ingredients of unknown toxicity.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity</td>
<td>0%</td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>0%</td>
</tr>
<tr>
<td>Acute inhalation toxicity</td>
<td>0%</td>
</tr>
<tr>
<td>Acute aquatic toxicity</td>
<td>0%</td>
</tr>
</tbody>
</table>

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

This product is a substance.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Acetate</td>
<td>127-08-2</td>
<td>~100%</td>
</tr>
</tbody>
</table>

4. **FIRST-AID MEASURES**

**Description of necessary first-aid measures**

**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 skin thoroughly 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.

**Most important symptoms/effects, acute and delayed**
Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

**Indication of immediate medical attention and special treatment needed**

**Notes to Physicians**
Treat symptomatically.

5. **FIRE - FIGHTING MEASURES**

**Suitable Extinguishing Media**
This preparation is used as an extinguishing agent and therefore is not a problem when trying to control a fire. Use extinguishing agent appropriate to other materials involved.

**Specific hazards arising from the chemical**
None known

**Special Protective Actions for Fire-Fighters**
Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.
6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures
  Wear appropriate protective clothing. Prevent skin and eye contact.

- Environmental Precautions
  Prevent large quantities of the material from entering drains or watercourses.

- Methods and materials for containment and cleaning up
  Sweep up or vacuum and transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

- Precautions for safe handling
  Wear appropriate protective clothing. Prevent skin and eye contact.

- Conditions for safe storage
  Store containers away from high heat sources. Storage area should be: - cool  - dry  - well ventilated  - under cover  - out of direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Control parameters
  Exposure limits are listed below, if they exist.

  Potassium Acetate
  None

  Nuisance Dust Limit
  OSHA PEL: 50 mppcf or 15 mg/m³ TWA, total dust
  15 mppcf or 5 mg/m³ TWA, respirable fraction

- Appropriate engineering controls
  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.

- Individual protection measures
  Respiratory Protection
  Not normally required. Use dust mask where dustiness is prevalent, or TLV is exceeded. In oxygen deficient atmospheres, use a self-contained breathing apparatus, as an air purifying respirator will not provide protection.
  Skin Protection
  Gloves
  Eye/Face Protection
  Chemical goggles or safety glasses with side shields.
  Body Protection
  Normal work wear.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid (powder)</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.57</td>
</tr>
<tr>
<td>Boiling Range/Point (°C/F)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting Point (°C/F)</td>
<td>292/558</td>
</tr>
<tr>
<td>Flash Point (°C/F)</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate (BuAc=1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>200g/100g water</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>VOC (g/l)</td>
<td>None</td>
</tr>
<tr>
<td>VOC (%)</td>
<td>None</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosive limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower explosive limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not flammable</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
No data available.

Chemical Stability
Stable under normal conditions.

Possibility of hazardous reactions
Hazardous polymerization will not occur.

Conditions to Avoid
Exposure to direct sunlight - contact with incompatible materials

Incompatible Materials
Strong oxidizing agents

Hazardous Decomposition Products
Oxides of carbon - potassium
11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Potassium Acetate
Oral LD50 (Rat) 3250 mg/kg
Dermal LD50 (Rabbit) >20,000 mg/kg (analogous compound)
Inhalation LC50(rat) >5.6 mg/l (analogous compound)

Specific Target Organ Toxicity (STOT) – single exposure
Potassium Acetate: No data available

Specific Target Organ Toxicity (STOT) – repeat exposure
Potassium Acetate: No data available

Serious Eye damage/Irritation
Potassium Acetate: Not irritating (rabbit)

Skin Corrosion/Irritation
Potassium Acetate: Not irritating (rabbit)

Respiratory or Skin Sensitization
Potassium Acetate: Available data indicates this component is not expected to cause skin sensitization. No data available for respiratory sensitization.

Carcinogenicity
Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity
Potassium Acetate: Available data indicates this component is not expected to be mutagenic.

Reproductive Toxicity
Potassium Acetate: Available data indicates this component is not expected to cause reproductive toxicity or birth defects.

Aspiration Hazard
Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Potassium Acetate:
LC50 Zebrafish 1497 mg/l 96h
EC50 Daphnia magna 420 mg/l 48h
EC50 Mann diatom 500 mg/l 72hr

Mobility in soil
No relevant studies identified.

Persistence/Degradability
No relevant studies identified.
12. ECOLOGICAL INFORMATION

Bioaccumulative Potential
No relevant studies identified.

Other adverse effects
No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose of container in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

Safety Data Sheet information is intended to address a specific material and not various forms or states of containment.

Special Precautions for Shipping:
Individuals must be certified as Hazardous Material Shipper for all transportation modes.


<table>
<thead>
<tr>
<th>DOT CFR 172.101 Data</th>
<th>Not Regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Proper Shipping Name</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>UN Class</td>
<td>None</td>
</tr>
<tr>
<td>UN Number</td>
<td>None</td>
</tr>
<tr>
<td>UN Packaging Group</td>
<td>None</td>
</tr>
<tr>
<td>Classification for AIR</td>
<td>Consult current IATA Regulations prior to shipping by air.</td>
</tr>
<tr>
<td>Transportation (IATA) Classification for Water</td>
<td>Consult current IMDG Regulations prior to shipping by water.</td>
</tr>
</tbody>
</table>

This section is believed to be accurate at the time of preparation. It is not intended to be a complete statement or summary of the applicable laws, rules, or hazardous material regulations, and is subject to change. Users have the responsibility to confirm compliance with all laws, rules, and hazardous material regulations in effect at the time of shipping.

15. REGULATORY INFORMATION

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

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

SARA Title III Sect. 311/312 Categorization
None
15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

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 Physical Hazard - 0
HMIS Code for Personal Protection - See Section 8
*Chronic

Legend
ACGIH: American Conference of Governmental Industrial Hygienists
CAS#: Chemical Abstracts Service Number
EC50: Effect Concentration 50%
IARC: International Agency for Research on Cancer
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
N/A: Denotes no applicable information found or available
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

Revision Date: November 23, 2016
Replaces: October 1, 2015
Changes made: Update to company address.

Information Source and References
This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

Prepared By: EnviroNet LLC.
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