1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Wet chemical fire extinguisher
Product Use: Fire extinguisher

Supplier Information
Company Name:
Address:
Tel:
Fax:
Email:
Emergency Telephone:

2. HAZARDS IDENTIFICATION

Emergency Overview
Physical Status:
Barrel material (Carbon Steel); extinguish agent (water, potassium acetate)
Potential Acute Health Effects:
This product is classified as not hazardous in accordance with related regulation.
Contents under pressure; may explode if heated.
Potential Chronic Health Effects:
Possible electrocution hazard if used on electrically energized equipment.
CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation: Preparation

Ingredients Name	Content/%	CAS No.	EINECS No.	EU Classification
Barrel material（carbon steel）	-	-	-	-

Water	>40	7732-18-5	231-791-2	-
Potassium acetate	<60	127-08-2	204-822-2	-

Note:

1: This MSDS is prepared mainly according to potassium acetate solution inside the extinguisher.

2: This MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of the product.

4. 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.

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. Keep pressurized containers and surroundings cool with water spray as they may rupture or burst in the heat of a fire.

Specific hazards arising from the chemical

Pressurized containers may explode in heat of fire.

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. Remove leaking container to a safe place. Ventilate the area.

Environmental Precautions

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

Methods and materials for containment and cleaning up

Contain and absorb using appropriate inert material. 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

Pressurized containers should be properly stored and secured to prevent falling or being knocked over. Do not drag, slide or roll pressurized containers. Do not drop pressurized containers or permit them to strike against each other. Never apply flame or localized heat directly to any part of the pressurized or plastic container. Store pressurized and plastic 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

Appropriate engineering controls

Use with adequate ventilation. If this product is used in a pressurized system, 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. 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

Physical state and appearance: Liquid.
Odor: Odorless.
Taste: Not available.
Molecular Weight: -
Color: Colorless.
pH (1% soln/water): 8 [Neutral.]
Boiling Point: ~100°C (212°F)
Melting Point: Not available.
Critical Temperature: Not available.
Specific Gravity: 1.32 (Water = 1)
Vapor Pressure: Not available.
Vapor Density: Not available.
Volatility: Not available.
Odor Threshold: Not available.
Water/Oil Dist. Coeff.: Not available.
Ionicity (in Water): Not available.
Dispersion Properties: Not applicable
Solubility: 100% soluble in water

10. STABILITY AND REACTIVITY

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 – water reactive materials
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)
Nitrogen
Simple asphyxiant

Specific Target Organ Toxicity (STOT) – single exposure

Potassium Acetate: No data available
Nitrogen: Exposure to nitrogen gas at high concentrations can cause suffocation by reducing oxygen available for breathing. Breathing very high concentrations can cause dizziness, shortness of breath, unconsciousness or asphyxiation.

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.

Bio accumulative 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

DOT CFR 172.101 Data Fire extinguishers, 2.2, UN1044
UN Proper Shipping Name Fire extinguishers
UN Class UN1044
UN Number (2.2)
UN Packaging Group Not applicable
Classification for AIR Transportation (IATA) Consult current IATA Regulations prior to shipping by air.
Classification for Water Transport IMDG Consult current IMDG Regulations prior to shipping by water.

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 (NDSL) or are exempt from listing.
SARA Title III Sect. 311/312 Categorization: Pressurized
Pressure hazard
SARA Title III Sect. 311/312 Categorization: Non-pressurized
None
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

Risk phrases in section 3:
-

Issue Date: 2018-7-30

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. We make no representation as to completeness or accuracy. In no event we shall be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

* * * END OF MSDS * * *