

Safety Data Sheet

Wet Chemical Solution

Revision Date: 11 July 2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Wet Chemical Solution (Fire Extinguishing Agent, Pressurised and Non-pressurised)
Use of Substance/Preparation:	Fire Extinguishing Agent (Do not use on electrically energized equipment. Consult applicable fire protection codes)
Importer / Supplier:	Fire Protection Technologies
Address:	Unit 1/251 Ferntree Gully Road Mt Waverley, Victoria, 3149 Australia.
Telephone Number:	1300 742 296
Emergency Telephone No.:	24 hours 1300 742 296
Emergency Services:	Dial 000
SDS Preparer:	Fire Protection Technologies

2. HAZARDS IDENTIFICATION

GHS Classification: Pressurised:

Hazard Classification

Gas under pressure – compressed gas

Label elements:



Signal word:

WARNING

Hazard Statements:

Contents under pressure; may explode if heated.

Precautionary statements:

Prevention

None.

Response

None.

Storage

Protect from sunlight. Store in well ventilated place

Disposal

None



GHS Classification: Non-Pressurised:

Hazard Classification

This product is classified as not hazardous in accordance with the Globally Harmonised 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:

Possible electrocution hazard if used on electrically energized equipment.

Specific Concentration Limits:

The values listed below represent the percentages of ingredients of unknown toxicity:

Acute oral toxicity	0%
Acute dermal toxicity	0%
Acute inhalation toxicity	0%
Acute aquatic toxicity	0%

3. COMPOSITION / INFORMATION ON INGREDIENTS

This product is a mixture.

Component	CAS Number	Concentration*
Potassium Acetate	127-08-2	30-60%

Note: Pressurised product uses nitrogen or compressed air as the expellant

* Exact concentration withheld

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.

Indication of immediate medical attention and special treatment needed

Note 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. 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 MEASURE

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

Handling:

Wear appropriate protective clothing. Prevent skin and eye contact.

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

Non-Pressurised

Appearance	Physical State	Liquid
	Colour	Clear or Blue
Odor		Odorless
Odor Threshold		Not applicable
pH		No data available
Specific Gravity		1.19-1.24
Boiling Range/Point (°C/F)		100/212
Melting Point (°C/F)		No data available
Flash Point (PMCC) (°C/F)		Not flammable
Vapor Pressure		Not applicable
Evaporation Rate (BuAc=1)		No data available
Solubility in Water		Soluble
Vapor Density (Air = 1)		Not applicable
VOC (g/l)		None
VOC (%)		None
Partition coefficient (n-octanol/water)		No data available
Viscosity		No data available
Auto-ignition Temperature		Not applicable
Decomposition Temperature		Not applicable
Upper Explosive Limit		Not applicable
Lower Explosive Limit		Not applicable
Flammability (Solid, Gas)		Not applicable

Expellant – Nitrogen

Appearance	Physical State	Compressed Gas
	Colour	Colourless
Odor		None
Odor Threshold		No data available
pH		Not applicable
Specific Gravity		0.075 b/ft ³ @70°F as vapor
Boiling Range/Point (°C/F)		-196°C/-321°F
Melting Point (°C/F)		No data available
Flash Point (PMCC) (°C/F)		Not flammable
Vapor Pressure		No data available
Evaporation Rate (BuAc=1)		No data available
Solubility in Water		No data available
Vapor Density (Air = 1)		Not applicable
VOC (g/l)		None
VOC (%)		None
Partition coefficient (n-octanol/water)		No data available
Viscosity		Not applicable
Auto-ignition Temperature		No data available
Decomposition Temperature		No data available
Upper Explosive Limit		Not explosive
Lower Explosive Limit		Not explosive
Flammability (Solid, Gas)		Not flammable

10. STABILITY AND REACTIVITY

Reactivity:

Pressurised containers may rupture or explode if exposed to heat

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

Serious Eye Damage / Irritation, Skin Corrosion / Irritation

Potassium Acetate

Not irritating (rabbit)

Respiratory or Skin Sensitisation

Potassium Acetate

Available data indicates this component is not expected to cause skin sensitization. No data available for respiratory sensitisation

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

No relevant studies identified for Mobility in Soil, Persistence/Degradability, Bioaccumulative Potential, Other adverse effects.

13. DISPOSAL CONSIDERATION

Disposal Methods

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



14. TRANSPORT INFORMATION

Special Precautions for Shipping

Individuals must be certified as Hazardous Material Shipper for all transportation modes. Pressurised Fire Extinguishers are considered a hazardous material.

DOT CFR 172.101 Data Fire extinguishers, 2.2, UN1044

UN Proper Shipping Name Fire extinguishers

UN Class 2.2

UN Number UN1044

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

When shipping via ground, portable fire extinguishers pressurized to less than 241 psi and of less than 1100 cubic inches in size meet the requirements of "Limited Quantity" as referenced in 49 CFR 173.309 (2010). There is no limited quantity designation for fire extinguishers when shipped by air or water. 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 (NDSL) or are exempt from listing.

SARA Title III Sect. 311/312 Categorisation: Pressurised

Gas under pressure

SARA Title III Sect. 311/312 Categorisation: Non-pressurised

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

NFPA Ratings

NFPA Code for Health – 1

NFPA Code for Flammability – 0

NFPA Code for Reactivity – 0

NFPA Code for Special Hazards - None

END OF MSDS