



# SAFETY DATA SHEET

Victory Fire & Gas Inc.

1713 Lewis Street, Bay City, MI. 48706. Office - +1 (989).322.0856.

E-Mail: [info@victoryfiregas.com](mailto:info@victoryfiregas.com), Website <http://www.victoryfiregas.com>

## SECTION 1 : IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL

### PRODUCT NAME

## VICTORY WET CHEMICAL EXTINGUISHANT

(Victory Wet Chemical Extinguisher Agent, Pressurized and Non-pressurized)

### OTHER MEANS OF IDENTIFICATION:

Wet chemical, Wet chemical solution, Class K, Class K liquid agent

### MODEL CODE OF EXTINGUISHER TYPES:

WC6L,WC2.5GL & OTHER VICTORY WET CHEMICAL FIRE EXTINGUISHERS.

### RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES AS ADVISED AGAINST

Firefighting agent, not for human or animal ingestion or drug use

### DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Supplier	VICTORY FIRE & GAS INC
Street	1713 Lewis Street
Postal City/Postal Code/Country	Bay City, MI 48706, USA
Company telephone	+1 (989) 322 0856 – 9am- 5pm AET Mon- Friday
Website / Email	<a href="http://www.victoryfiregas.com">http://www.victoryfiregas.com</a> <a href="mailto:info@victoryfiregas.com">info@victoryfiregas.com</a>
Dept Responsible for information	Compliance
Emergency telephone number	CHEMTREC No.(800) 424 9300 /+1(703) 527 3887 (International)

*Note: Safety data sheet in accordance with OSHA Hazard Communication Standards (19 CFR 1910.,1200, the Canadian Hazardous Products Regulations (HPR) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)*


## SECTION 2 : HAZARDS IDENTIFICATION:

### DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

This SDS covers the product listed as above sold in pressurized and non-pressurized containers. GHS classifications for both forms are listed. Classification according to the global harmonized system of classification and labelling of chemicals (GHS) including work, health, and safety regulations.

Health	Environmental	Physical
Acute Toxicity : Category 5	None	None
Skin Corrosion / Irritation : Category 3	None	None
Skin Sensitization : No	None	None
Eye Category : 2B	None	None
Carcinogen : Category none	None	None

**LABEL ELEMENTS - Non-pressurized / Pressurized (\*)**

Hazard Pictograms	
Pictogram Code	GHS04 Gases Under Pressure (*)
Signal Word	WARNING
<b>Hazard Statements</b>	
Physical Hazards	H229 Contents under pressure, may explode if heated (*)
Health Hazards	H303 maybe harmful if swallowed H316 Causes mild skin irritation H320 Causes eye irritation H335 may cause respiratory irritation
Environmental Hazards	
Combinations	
<b>Precautionary Statements</b>	
General	P101 If medical advice is needed, have product container or label at hand
Prevention	P251 Pressurized container; do not pierce or burn, even after use (*) P264 Wash hands thoroughly after handling. P270 Do not eat, drink, or smoke when using this product P280 Wear protective gloves/protective clothing/eye protection/face protection
Response	P321 Specific treatment (see section: First Aid Measures) P362 Take off contaminated clothing. P391 Collect spillage P301 + P312 IF SWALLOWED, Call a doctor if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of water. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351+ P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/attention P342 + P311 If experiencing respiratory symptoms: Call a doctor P337 + P313 IF EYE IRRITATION PERSISTS: get medical advice/attention.
Storage	P410 + P403 Protect from sunlight. Store in well ventilated place (*)
Disposal	P501 dispose of contents/container in accordance with local/regional/national/international regulations

## SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS:

**MIXTURE INGREDIENTS(\*)**

Ingredients (Designation)	CAS No.	Concentration (Weight %)
Potassium Acetate (C2H3KO2)	127-08-2	<10%
Potassium Citrate (C6H5O7K3)	6100-05-6	<30%
Sodium Tetraborate Decahydrate (Inhibitor)	1303-96-4	<0.2%
Sodium Nitrite (Inhibitor)	7632-00-0	<0.2%
Water	7732-18-5	>60%
Nitrogen (Expellant only when extinguisher is supplied pressurized)	7727-37-9	-

(\*)This product (extinguishing agent) is a mixture / rounded values / not product specification



## SECTION 4 : FIRST AID MEASURES

### DESCRIPTION OF FIRST AID MEASURES:

#### Inhalation

Symptoms may include irritation and coughing. If respiratory irritation, breathing difficulty or distress occurs remove victim to fresh air and immediately obtain medical attention.

#### Skin Exposure

May cause skin irritation. In case of contacts, wash affected area with plenty soap and water. If irritation persists, seek medical attention.

#### Eye Exposure

May cause irritation. Irrigate eyes with water for a minimum of 15 minutes. If soreness or redness persists, seek medical attention.

#### Ingestion

Overdose may include gastrointestinal complaints of change in urine output. If victim is conscious and alert, give plenty of water or milk to drink (2-3 glasses). Do not induce vomiting. Obtain medical attention. Do not leave victim unattended.

#### Medical Conditions possible aggravated by exposure

Inhalation of extinguishing agent may aggravate existing chronic respiratory problems e.g., asthma, emphysema, or bronchitis. Skin contact may aggravate existing skin diseases.

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### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Note to Physicians. Treat symptomatically. See LABEL ELEMENTS

## SECTION 5 : FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

Product is an extinguishing media and therefore non-flammable / non-combustible. Use extinguishing media appropriate for the materials involved. Keep pressurized containers and surroundings cool with water spray as they may rupture or burst when exposed to heat of a fire. The extinguishing agent is not sensitive to static discharge or mechanical impact.

### SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Decomposition of the extinguishing agent in a fire may release carbon oxides, potassium oxides and acetic acid fumes. Pressurized containers may rupture or burst when exposed to heat of a fire.

### ADVICE FOR FIRE FIGHTERS

Appropriate personal protective equipment for fire fighters: Fire fighters should wear protective clothing as appropriate for specific fire conditions.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Avoid eye and skin contact. Wear appropriate personal protective equipment and clothing to minimize exposure.

### ENVIRONMENTAL PRECAUTIONS

If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations. Dispose of waste according to the applicable local and national regulations.



## METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Clean up using absorbent materials. Bag and drum for disposal as required by local, state, and federal regulations in place.

## SECTION 7 : HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

#### Advice on Safe Use of Product:

Maintain high standards of personal hygiene i.e., Washing hands prior to eating, drinking, smoking, or using toilet facilities.

#### Advice on Safe Handling:

Keep extinguishing agent in original container or fire extinguisher. Keep containers sealed when not in use. Maintain extinguisher in accordance with local / national codes. Wear appropriate PPE when handling or maintaining equipment (see section 8). Use only in a well ventilated area. Maintain high standards of personal hygiene i.e., Washing hands prior to eating, drinking, smoking, or using toilet facilities.

#### Environmental Precautions:

Ensure that storage conditions comply with applicable local and national regulations.

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### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

#### Technical measures and storage conditions:

Always store in dry, cool area out of direct sunlight in original container with lid tightly closed or within extinguisher.

#### Requirements For Storage Rooms And Containers:

Store in suitable, labeled containers. Keep containers closed when not in use. Ensure that storage conditions comply with applicable local and national regulations. Storage areas should be kept dry & clean and free from flammable materials. Ensure that containers are properly vented to prevent build up pressure.

Storage area should be: - cool - dry - well ventilated - under cover - out of direct sunlight.

Do not mix with other extinguishing agents. Incompatible with strong oxidizing agents and strong acids.

Pressurized extinguishers should be properly stored and secured to prevent falling or being knocked over. Do not drag, slide or pressurized containers. Do not drop pressurized containers or permit them to strike against each other. Inspect extinguishers frequently in accordance with local / national regulations.

Never apply flame or localized heat directly to any part of the pressurized container.

Store pressurized containers away from high heat sources. Do not allow any part of a cylinder to be exposed above +60°C (+140°F).

#### Suitable Container/Equipment Material:

No information available.

#### Unsuitable Container/Equipment Material:

No information available.

#### Information on combines storage:

No information available.

## SECTION 8 : EXPOSURE CONTROLS AND PERSONAL PROTECTION

### CONTROL PARAMETERS/OCCUPATIONAL EXPOSURE LIMIT VALUES EXPOSURE GUIDELINES

Available exposure limits for ingredients are listed below where available: See Notes (\*)



Substance	OSHA PEL	ACGIH TLV
Potassium Acetate	Not regulated	Not regulated
Potassium Citrate	Not regulated	Not regulated
Inhibitor	Not regulated	Not regulated
Water	Not regulated	Not regulated
Nitrogen (Expellant only when extinguisher is pressurized)	Not regulated	Not regulated

(\*)(PNOC) – Particulates not otherwise classified (ACGIH) or Particulates not otherwise regulated (OSHA)

(PEL) - Permissible exposure limit. The permissible exposure limit (PEL or OSHA PEL) is a legal limit in the United States for exposure of an employee to a chemical substance.

(TLV) - Within the context of workplace safety, represents the maximum airborne concentration of a chemical substance to which an adult can be exposed to in the workplace over the course of his or her lifetime without suffering significant harm.

## EXPOSURE CONTROLS

### Appropriate Engineering Controls:

During the use of this product on fires, exhaust gases and products of incomplete combustion are the main respiratory hazards. In the manufacture of this product, employers and employees must use their collective judgment in determining the on the job settings where the respirator is prudent. The need for respiratory protection is not likely for short-term use in well-ventilated areas. Use with good general ventilation. Systems under pressure should be regularly checked for leakages.

### Individual Protective Measures, e.g., Personal Protective Equipment:

The following recommendations should be considered:

- Eye Protection : Wear chemical goggles.
- Skin Protection : Chemical resistant gloves nitrile, latex or similar gloves and coveralls.
- Respiratory Protection : Against mist, use N-95 dust mask for limited exposures and use air purifying respirators with high efficiency particulate air filters (HEPA filters) for prolonged exposure.

### Environmental Exposure Controls

N/A

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES – EXTINGUISHING AGENT

Appearance /Physical State:/ color:	Liquid
Molecular weight	Potassium Acetate (C <sub>2</sub> H <sub>3</sub> KO <sub>2</sub> ) : 98.14; Potassium Citrate (C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> K <sub>3</sub> ): 306.39
Odor:	No Odor warning properties
pH	10.50 +/-1.00
Melting Point (°C)	C <sub>2</sub> H <sub>3</sub> KO <sub>2</sub> : 292 / C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> K <sub>3</sub> : 180
Density (at 20°C) : g/cm <sup>3</sup>	1.13-1.16
Kinematic viscosity (at 20°C)	2.26mm <sup>2</sup> /s
Flash Point (°C)	Non-flammable
Explosive or Oxidizing Properties	None
Water Solubility (g/l)	100%
Flammability Range (Vol% In Air):	Non Flammable.
Other Information:	Stability in Temperature: 0°C ~+60°C (32°F to +140°F)



## INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES – PROPELLANT (\*)

Appearance	Colorless
Odor:	Odorless
pH	N/A
Melting Point	N/A
Density (at 20°C)	0.0725lb/ft <sup>3</sup> as a vapor (0.00116 g/cm <sup>3</sup> )
Flash Point (°C)	Non-flammable
Explosive or Oxidizing Properties	None
Water Solubility (g/l)	N/A
Flammability Range (Vol% In Air):	Non-flammable
Other Information:	N/A

(\*) Only when extinguisher is pressurized with Nitrogen

## SECTION 10 : STABILITY AND REACTIVITY

### CHEMICAL STABILITY

No special measures are necessary. Stable under normal ambient storage and handling conditions.

### REACTIVITY

Reacts with incompatible materials. Pressurized containers may rupture or explode when exposed to heat of a fire.

### CONDITIONS TO AVOID

Extremes of temperature over +60°C (+140°F)

### INCOMPATIBLE MATERIALS

Strong acids or oxidants, calcium oxide (lime), inorganic bases. Avoid contact with alkali sensitive metals or alloys e.g., aluminum, lead, tin, zinc, magnesium. Do not mix with other extinguishing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides, potassium oxides and acetic acid can be evolved at very high temperatures.

### HAZARDOUS POLYMERIZATION

Does not occur.

## SECTION 11 : TOXICOLOGICAL INFORMATION

### INFORMATION ON POSSIBLE ROUTES OF EXPOSURE

This chemical formulation has not been tested for health effects.

Acute Toxicity	Relatively nontoxic
Chronic toxicity	No known short or long term issues known.
Eye Contact:	Mild irritation
Skin Contact:	Mild irritation



Inhalation:	Irritation, coughing.
Ingestion:	Although not an expected route of entry, if ingested, may cause discomfort.
Reproductive toxicity	This product is not known to have any reproductive effects
Nitrogen (*) Pressurizing gas	Simple asphyxiant. Exposure at high concentrations can cause suffocation by reducing the available oxygen

#### ACUTE TOXICITY DATA:

The following data is available for components of this product greater than 1% by weight in concentration.

Substance	LD50 Oral	LD50 Dermal	LC50 (inhalation)
Potassium Acetate	Rat = 3250 mg/kg	Rabbit >20,000mg/kg (analogous compound)	Rat >5.6mg/l (analogous compound)
Potassium Citrate	Rat = 5400 mg/kg	> 2000 mg/kg	Not listed
Water	Not applicable	Not applicable	Not applicable

## SECTION 12 : ECOLOGICAL INFORMATION

#### INFORMATION ON ELIMINATION:

Weak environmental toxic material. Unknown specific negative impacts.

#### DEGRADEABILITY:

Water soluble with moderate degradation in soil. Will degrade rapidly photolitically in air.

#### BIOACCUMILATION POTENTIAL

Low.

#### MOBILITY IN SOIL

Water soluble. May leech into ground water

#### ENVIRONMENTAL PROTECTION

Contains no heavy metal salts. Residue from fires extinguished with this material may be hazardous.

## SECTION 13 : DISPOSABLE INFORMATION

#### DISPOSABLE METHODS

This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal regulations. Be aware that product used on a fire may be altered or contaminated and thereby require different disposal considerations. No harm to the environment expected from this preparation. Dispose of waste according to applicable local and national regulations. Residue from fires extinguished with this material may be hazardous.

#### UNCLEANED PACKAGING

Disposal according to official regulations.



## SECTION 14 : TRANSPORT INFORMATION

This product is not defined as a hazardous material under U.S. Department of Transportation 49 CFR 172, or by Transport Canada "Transportation of Dangerous Goods" regulations. Please Note: Although this material is not considered hazardous, when contained in a stored pressure fire extinguisher pressurized with a non-flammable gas, the extinguisher itself is considered a hazardous material by the U.S. Department of Transportation (USDOT) and Transport Canada (TC). The proper shipping name shall be Fire Extinguisher and the UN Identification Number is UN 1044. The USDOT hazard class is Limited Quantity when pressurized to less than 241 psig and when shipped via highway or rail. Use Class 2.2, Non- Flammable Gas, when shipping via air and consult latest IATA and IMDG Regulations prior to shipping by air or water.

See table below.

This section is believed to be accurate at time of creation. It is not intended to be a complete statement or summary of all applicable laws, rules, or hazardous material regulations in place at time of shipping.

Fire Extinguishers	
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 IATA Regulations prior to shipping by water

## SECTION 15 : REGULATORY INFORMATION

### SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE

NOT Classified as hazardous according to the Globally Harmonized System of classification and labeling of chemicals (GHS) including Work, health, and Safety regulations. Not classified as a Scheduled Poison according to the Standard for the uniform Scheduling of medicines and Poisons (SUSMP).

#### International Inventory Status: All ingredients are on the following inventories

Country	Agency	Status
USA	TSCA	Yes
Canada	DSL	Yes

#### U.S. Federal Regulatory Information:

##### SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) - This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the





Code of Federal Regulations, Part 372.

None pressurized: None of the chemicals in this product are under SARA reporting requirements or have SARA Threshold Planning Quantities or CERCLA Reportable Quantities or regulated under TSCA 8(d).

Pressurized: SARA Title III Section 311/312 Categorization is Pressure Hazard.

SARA 311-312 Hazard Categories

Acute Health Hazard	No
Chronic health hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	Yes (Only if material is pressurized extinguisher)
Reactive Hazard	No

**Clean Water/Clean Air Acts**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) or Clean Air Act, Section 112 Hazardous Air Pollutants (HAPS) (see 40 CFR 61) and Section 112 of the Clean Air Act Amendments of 1990

**State Regulatory Information:**

Chemicals in this product covered under the specific State regulations noted

Alaska Designated Toxic and Hazardous Substances	None
California Permissible Exposure Limits for Chemical Contaminants	None
Florida Substance list	None
Illinois Toxic Substance List - None	None
Kansas Section 302/303 List - None	None
Massachusetts Substance list- Mica dust Minnesota List of Hazardous Substances	None
Missouri Employer Information/Toxic Substance List	None
Minnesota List of Hazardous Substances	None
New Jersey Right to Know Hazardous Substance List	None
North Dakota List of Hazardous Chemicals, Reportable Quantities	None
Pennsylvania Hazardous Substance List	None
Rhode Island Hazardous Substance List	None
Texas Hazardous Substance List	No
West Virginia Hazardous Substance List	None
Wisconsin Toxic and Hazardous Substances	None
California Proposition 65- No component is listed on the California Proposition 65 List	

**CHEMICAL SAFETY ASSESSMENT:**

Chemical safety assessments for substances in this mixture were not conducted.

**OTHER:**

Canada : WHMIS Hazard Class : D2B – May irritate eyes, mucous membranes, or skin.



## SECTION 16 : OTHER INFORMATION

### KEY LITERATURE REFERENCES AND SOURCES

#### NFPA RATINGS

US Nation Fire Protection Agency (NFPA) hazard ratings: (Scale of 0 to 4, with 0 = lowest increasing to 4 = highest hazard, refer to NFPA for details related to the relative rating for each category)

Health -1

Flammability – 0

Reactivity – 0

Special Hazard - None

#### LEGEND

ACGIH American Conference of Governmental Industrial Hygienists

CAS# Chemical Act 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

STOT Specific Target Organ Toxicity

TLV Threshold Limit Value

TSCA Toxic Substance Control Act

#### INFORMATION AND REFERENCES

The information provided is given in good faith. The information and recommendations in this SDS are based on sources believed to be accurate. Victory Fire and Gas assumes no responsibility for accuracy or completeness of information provided. It is the user's responsibility to determine suitability or completeness of information.

We make **NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED**, with respect to such information, and we assume no liability resulting from its use.

Users should ensure that any use or disposal of the material in accordance with applicable Federal, State, and local laws and regulations. Please refer to our internet website for more information: [www.victoryfiregas.com](http://www.victoryfiregas.com).

For contact information please go to page 1 of this SDS.

**END OF SDS.**