AW FIREGUARD
Protecting BC Since 1979
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www.awfireguard.com

SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

PRODUCT IDENTIFIER:

Product Name — **VICTORY FIRE AND GAS AVD EXTINGUISHANT** (Pressurized and non-pressurized)

OTHER MEANS OF IDENTIFICATION: Aqueous Vermiculite Dispersion

PRODUCT CODE : **FOR EXTINGUISHER TYPES** AVD2L, AVD6L, AVD50L

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

- Recommended Use: Firefighting agent for fires involving class A and Lithium-Ion Batteries.
- Uses advised against: Do not use on fires involving classes B, C, D or K. Not for human or animal ingestion or drug use.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

- Supplier: VICTORY FIRE & GAS INC. · *Distributed by AW Fireguard, (604) 461-2323, info@awfireguard.com*
- Street : 1713 Lewis Street
- Postal City/Postal Code/Country: Bay City, MI 48706, USA
- Company telephone: +1 (989) 322 0856 – 9am- 5pm EST Mon- Friday
- Website / Email: http://www.victoryfiregas.com info@victoryfiregas.com

EMERGENCY TELEPHONE NUMBER

- Emergency telephone number (24 hrs.): CHEMTREC No. (800) 424 9300 (**Within USA and Canada**) / CHEMTREC No. +1(703) 527 3887 (**Outside USA and Canada**)

SECTION 2 : HAZARD IDENTIFICATION

CLASSIFICATION

- This SDS covers the product listed as above sold in pressurized and non-pressurized containers.
- 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 (GHS) of Classification and Labelling of Chemicals.

Hazard Class	Category	Signal Word
Gases under Pressure (*)	Compressed gas	Warning
Acute Toxicity / Oral	Not classified	None
Skin Corrosion / Irritation	Not classified	None
Serious Eye Damage / Eye Irritation	Not classified	None
Acute Toxicity / Inhalation	Not classified	None
Specific Target Organ Toxicity (STOT) – Single Exposure: Respiratory Tract Irritation	Not classified	None

SAFETY DATA SHEET

CLASSIFICATION : *pressurized (*) / unpressurized*

Hazard Pictograms	
Pictogram Code	GHS04 Gases Under Pressure (*)
Signal Word	WARNING
GHS Hazard	**Hazard Statements (GHS Codes and Phrases)**
Physical Hazards	H280: Contains gas under pressure; may explode if heated (*)
Health Hazards	
	Precautionary Statements (GHS Codes and Phrases applicable to Hazard Statements)
Prevention	
Response	
Storage	P410 + P403: Protect from sunlight. Store in well-ventilated place (*).
Disposal	

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

- None

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURE - INGREDIENTS

- This product is a mixture. The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.
- (**) Rheology modifiers / syneresis control agents – no hazardous substances. Registered or exempt from registration.

Ingredients (Designation)	REACH Reg. No.	CAS No.	EC No.	Content (% wt.)	Classification
Vermiculite	-	1318-00-9	-	5-20	N/A
Proprietary ingredients (**)	-	N/A	-	<1	N/A
Water	-	7732-18-5	231-791-2	80-95	N/A
Nitrogen (Only when extinguisher is pressurized)	-	7727-37-9	231-783-9	Propellant	N/A

SECTION 4 : FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

Eye Exposure	Skin Exposure	Inhalation	Ingestion
Immediately flush with clean water or eye wash solution, holding the eyelids apart for at least 15 minutes. **Seek medical attention if irritation persists. develops,**	If irritation occurs, then wash affected skin with plenty of soap and water. **Get medical attention if irritation persists after washing.**	Not anticipated. Aqueous product – treatment as for water. Remove exposed person to fresh air, keep warm and at rest	There are no known adverse effects for small quantities and hence first aid measures are not usually required. For larger quantities, wash mouth out with water and give water to drink. Do not induce vomiting. **If gastrointestinal symptoms occur, then seek medical advice**.

MEDICAL CONDITIONS AGGRAVATED
- Significant acute or delayed effects are not anticipated.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED
- None known.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED
- Note to Physicians. Treat symptomatically. See LABEL ELEMENTS

SECTION 5 : FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA
- This product is an extinguishing agent. It is non-flammable and non-combustible. See section 1 for fire class suitability.
- Use extinguishing agent appropriate to other 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.

UNSUITABLE EXTINGUISHING MEDIA
- None

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL
- Spilt material may be a slip hazard.
- Pressurized containers may rupture or burst when exposed to heat of a fire.

EXPLOSION DATA
- Sensitivity to Mechanical Impact: Not sensitive
- Sensitivity to Static Discharge: Not sensitive

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS
- Fire fighters should wear protective clothing as appropriate for specific fire conditions.

SECTION 6 : ACCIDENTIAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
Personal Precautions
- Avoid eye and skin contact.
- Wear appropriate personal protective equipment to protect eyes, skin and clothing to minimize exposure (see section 8).

For emergency Responders
- Wear an appropriate NIOSH/MSHA approved respirator if dust is generated (see section 8).

ENVIRONMENTAL PRECAUTIONS
Environmental Precautions
- Prevent large quantities of product from entering drains, sewers or watercourses.
- 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
Methods for Containment
- Stop leak if you can do it without risk.
- Clean up using absorbent materials, for example, thermally expanded vermiculite granules.

Methods for Cleaning Up
- Absorb excess product with absorbent non-combustible material (e.g. thermally expanded vermiculite granules).

- Sweep up and transfer, e.g. shovel, into a suitable, labelled container.

Other

- If product is contaminated, use PPE and containment appropriate to the nature of the most toxic chemical or material in the mixture.

SECTION 7 : HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Advice for Safe Handling:

- Maintain high standards of personal hygiene i.e., Washing hands prior to eating, drinking, smoking, or using toilet facilities.
- Wear appropriate PPE when handling or maintaining equipment (see section 8).
- Do not drag or slide pressurized containers.
- Do not drop pressurized containers or permit them to strike against each other.
- Inspect extinguishers frequently in accordance with local / national regulations.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage Conditions

- Keep extinguishing agent in original container or fire extinguisher.
- Inspect the container for rust or damage that may compromise the container's integrity.
- Store pressurized containers away from high heat sources.
- Storage areas should be kept dry & clean and free from flammable materials.
- Use products only in a cool, well-ventilated area under cover and out of direct sunlight.
- Never apply flame or localized heat directly to any part of the pressurized container.

Incompatible Materials

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

Environmental Precautions:

- Prevent the buildup of dust in the work atmosphere (for aerosol particulates or dust from dried products).
- Ensure that storage conditions comply with applicable local and national regulations.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

Exposure Guidelines

Substance	OSHA PEL / CAL-OSHA PEL TWA	ACGIH TLV
Vermiculite	15 mg/m^3 [TWA, total particulates, not otherwise regulated] 5 mg/m^3 ACGIH TLV [TWA, respirable particulates, not otherwise regulated]	10 mg/m^3 [TWA, inhalable particulates, not otherwise regulated] 3 mg/m^3 [TWA, respirable particulates, not otherwise 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 life time without suffering significant harm. All values are 8 hour time weighted average (TWA) concentrations.

SAFETY DATA SHEET

APPROPRIATE ENGINEERING CONTROLS:

Engineering Measures

- 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 use of a dust mask or respirator is prudent. 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. Systems under pressure should be regularly checked for leakages.

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

- 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.

Requirement	Instruction	PPE
Eye Protection	Wear safety glasses with side shields or chemical goggles	**Eye Protection /** Safety Glasses 
Skin Protection	No specific protection but gloves and coveralls are advised.	**Protection of Hands /** Protective Gloves 
Respiratory Protection	No specific recommendation for the aqueous product.	
Hygiene Measures	Do not eat, drink, or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Soiled clothing must be adequately laundered to avoid becoming a dust source	
Ventilation	Use local exhaust or general dilution ventilation to control exposure with applicable limits	

Environmental Exposure Controls:

- Not applicable

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES – EXTINGUISHING AGENT

Appearance	Gold / brown liquid suspension
Molecular Weight	No information available
Odor	Slightly earthy smell
Odor Threshold	No information available
Decomposition Temperature °C /(°F)	No information available
Melting point / Freezing Point	Dried material > 1300°C (2372°F)
Boiling Point	Aqueous component b.p. approx. 100°C (212°F)
Physical State	Liquid suspension
pH	Approximately 7.0-10.0
Flash Point °C /(°F)	None
Autoignition Temperature °C/°F	No information available
Flammability Range (Vol% In Air):	Non-Flammable.
Density (at 20°C) : g/cm^3	Approx 1.1
Explosive Properties	Not explosive
Oxidizing Properties	No data available

SAFETY DATA SHEET

Volatile Component (%vol)	Not applicable
Evaporation rate	No information available
Vapor Density	No information available
Vapor Pressure	No information available
Specific Gravity 20°C/68°F	Approx 1.1
Water Solubility (g/l)	Product is miscible in water
Partition coefficient	Not applicable
Viscosity	No information available
Other Information:	Stability in Temperature: 0°C ~+60°C (+32°F to +140°F)

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES – PROPELLANT

Appearance	Colorless compressed gas in extinguisher
Odor	Odorless
Odor Threshold	No data available
pH	N/A
Specific Gravity (at 20°C)	0.0725lb/ft^3 as a vapor (0.00116 g/cm3)
Boiling Point/Range °C/°F	-196 / -321
Melting Point/Range °C/°F	-210 / -346
Flash Point °C/°F	Non-flammable
Vapor Pressure °C/°F	838 psig at 21 / 70
Evaporation Rate (BuAc=1)	Not applicable
Water Solubility (g/l)	0.02
Vapor Density (Air = 1)	0.97
VOC (g/L) / (%)	Not applicable
Decomposition Temperature	No data available

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. Reacts with incompatible materials, for example strong mineral acids and Hydrofluoric acid.
- Pressurized containers may rupture or explode when exposed to heat of a fire.

CONDITIONS TO AVOID
- Extremes of temperature over below 0°C (32°F) and above +60°C (+140°F) / Incompatible materials

INCOMPATIBLE MATERIALS
- Strong acids or oxidants. 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
- This product may decompose in fire and release carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION
- Does not occur.

SAFETY DATA SHEET

HAZARDOUS REACTIONS

- None.

SECTION 11 : TOXICOLOGICAL INFORMATION

INFORMATION ON POSSIBLE ROUTES OF EXPOSURE

Product Information

Inhalation:	Not expected
Eye Contact:	No data available
Skin Contact:	No data available
Ingestion:	Not expected
Nitrogen (propellant)	Simple asphyxiant. Exposure to high concentrations can cause suffocation by reducing the available oxygen. Breathing very high concentrations can cause dizziness, shortness of breath, unconsciousness, or asphyxiation.

ACUTE TOXICITY: Non-toxic.

CHRONIC TOXICITY:

- Short-term Exposure: None known.
- Long-term Exposure: None known

TOXICITY DATA: HEALTH

	INGREDIENT		
	Vermiculite	Proprietary Ingredients	Water
Acute toxicity (oral) LD-50	Not applicable	Not applicable	Not applicable
Acute toxicity (dermal) LD-50	Not applicable	Not applicable	Not applicable
Acute toxicity (inhalation) LC-50	Not applicable	Not applicable	Not applicable
Skin corrosion / irritation	Not applicable	Not applicable	Not applicable
Serious eye damage / irritation	Not applicable	Not applicable	Not applicable
Respiratory or skin sensitization	Not applicable	Not applicable	Not applicable
Ingestion	Not applicable	Not applicable	Not applicable
Germ cell mutagenicity	Not applicable	Not applicable	Not applicable
Carcinogenicity	Not applicable	Not applicable	Not applicable
Reproductive toxicity	Not applicable	Not applicable	Not applicable
STOT-single exposure	Not applicable	Not applicable	Not applicable
STOT-repeated exposure	Not applicable	Not applicable	Not applicable
Aspiration hazard	Not applicable	Not applicable	Not applicable

SUSPECTED CANCER AGENT:

- Not applicable

SECTION 12 : ECOLOGICAL INFORMATION

ECOTOXICITY

- Not applicable

MOBILITY IN SOIL

- Not readily biodegradable.

SAFETY DATA SHEET

PERSISTENCE/DEGRADABILITY
- Not readily biodegradable.

BIOACCUMILATIVE POTENTIAL
- Not applicable.

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

SECTION 13 : DISPOSABLE CONSIDERATIONS

DISPOSAL METHODS
- Safe Handling: Use appropriate PPE when handling and wash thoroughly after handling (see Section 8).
- This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261).
- This material could become a hazardous waste if it mixed with or otherwise comes in contact with hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered.
- Consult 40 CFR 261 to determine whether the altered material is a hazardous waste.
- Consult the appropriate state, regional, or local regulations for additional requirements.

CONTAMINATED PACKAGING
- Do not reuse container.
- Dispose in accordance with federal, state, and local 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: 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.
- When shipping via ground, portable fire extinguishers pressurized to less than 241 psi and of less than 1100 cubic inches (18L) 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.
- If in doubt, see https://www.ecfr.gov/current/title-49/subtitle-B/chapter-I/subchapter-C.
- 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. Consult applicable regulations for latest requirements.

Transport	Proper Name	UN /ID	Class or Div	Classification Code	Symbols	Packing Group	Special Provisions	Excepted Quantities (EQ)	Emergency Procedures	Stowage and Handling
DOT	FIRE EXTINGUISHERS	1044	2		2.2	Not regulated				
ADR/ADN	FIRE EXTINGUISHERS	1044	2	6A	2.2	Not regulated	225, 594	E0		
IMDG	FIRE EXTINGUISHERS	1044	2.2		2.2	Not regulated	225	E0	F-C,S-V	Category A
IATA	FIRE EXTINGUISHERS	1044	2.2		2.2	Not regulated	A19	E0		

SAFETY DATA SHEET

ADDITIONAL INFORMATION

• DOT	Quantity limitations :	On passenger aircraft/rail 75kg ; Cargo aircraft only 150kg
• ADR/ADN	Excepted quantities (EQ)	Code E0, not permitted as Excepted Quantity
• IMDG	Limited quantities (LQ)	120ml
• IMDG	Excepted quantities (EQ)	Code E0, not permitted as Excepted Quantity
• IATA	Limited quantities (LQ)	Code E0, forbidden passenger aircraft (PAX)
• IATA	Excepted quantities (EQ)	Code E0, not permitted as Excepted Quantity

TRANSPORT LABELS

ADR/AND/IMDG/IATA



DOT



SECTION 15 : REGULATORY INFORMATION

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

United States TSCA Inventory

- This product contains ingredients that are listed on or exempt from listing on the EPA (TSCA) 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

- Gas under pressure

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.

CERCLA

- This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to release of this material.

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 are covered under the specific State regulations noted.

SAFETY DATA SHEET

Alaska Designated Toxic and Hazardous Substances	None
California Permissible Exposure Limits for Chemical Contaminants	None
Florida Substance list	None
Illinois Toxic Substance List	None
Kansas Section 302/303 List	None
Massachusetts Substance list- Mica dust	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	None
West Virginia Hazardous Substance List	None
Wisconsin Toxic and Hazardous Substances	None
California Proposition (PROP) 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: No component listed.
- Mexico: Grade: No component listed.
- European risk and safety phrases: - None

SECTION 16 : OTHER INFORMATION

KEY LITERATURE REFERENCES AND SOURCES

NFPA RATINGS

USA National Fire Protection Agency (NFPA) Hazard Ratings and Hazardous Materials Identification System (HMIS) Ratings : (Scale of 0 to 4, with 0 = lowest increasing to 4 = highest hazard, refer to NFPA / HMIS for details related to the relative rating for each category).

NFPA 704 RATINGS

Health	0
Flammability	0
Reactivity	0
Special Hazard	None



HMIS RATINGS

Health	0
Flammability	0
Reactivity	0
Special Hazard	None



4. Severe Hazard
3. Serious Hazard
2. Moderate Hazard
1. Slight Hazard
0. Minimal Hazard

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SAFETY DATA SHEET

LEGEND

ACGIH	American Conference of Governmental Industrial Hygienists
AND	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS No	Chemical Act Service Number
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act
CFR	Code of Federal Regulations
DOT	U.S. Department of Transportation
D2B	WHMIS hazard class :material that may cause eye irritation, respiratory sensitization, or chronic toxicity.
EC50	Effect Concentration 50%
EC No	European Community number
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	The International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
N/A	Denotes no applicable information found or available.
NFPA	National Fire Protection Agency
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PNOC	Particulates not otherwise classified.
PROP	Proposition
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
WHMIS	The Workplace Hazardous Materials Information System

INFORMATION AND REFERENCES

DISCLAIMER: 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 Inc. assumes no responsibility for accuracy or completeness of information provided. It is the user's responsibility to determine suitability or completeness of information.

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