



SAFETY DATA SHEET

Victory Fire & Gas Inc.

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

E-Mail: info@victoryfiregas.com, Website <http://www.victoryfiregas.com>

SECTION 1 : IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL

PRODUCT NAME

ZXUL90 ABC DRY CHEMICAL POWDER EXTINGUISHANT

(Victory Multi-Purpose ABC Dry Chemical Extinguisher Agent, Pressurized and Non-pressurized)

OTHER MEANS OF IDENTIFICATION:

Extinguishant, ABC90, Multipurpose Dry Chemical, MAP90, 90% MAP, Ammonium Phosphate, Monoammonium phosphate.

MODEL CODE OF EXTINGUISHER TYPES:

PD2.5LB/PD2.5LB-AL/PD2.5LB-S/PD2.5LB-ALS/ PD5LB/PD5LB-AL/PD5LB-H/PD5LB-ALH/PD5LB-S/PD5LB-ALS/PD5LB-HS/PD5LB-ALHS/ PD10LB/PD10LB-AL/PD10LB-S/PD10LB-ALS/ PD20LB/ PD20LB-AL/PD20LB-S/PD20LB-ALS/PD20LBHF/PD20LBHF-A/PD20LBHF-S/PD20LBHF-AS

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	http://www.victoryfiregas.com info@victoryfiregas.com
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 : 2A	None	Warning
STOT (*) : Category 3	None	Warning
Carcinogen : Category none	None	None

(*) Specific Target Organ Toxicity

LABEL ELEMENTS - Non-pressurized / Pressurized (*)

Hazard Pictograms	
Pictogram Code	GHS07 Exclamation Mark / GHS04 Gases Under Pressure(*)
Signal Word	WARNING
Hazard Statements	
Physical Hazards	H229 Contents under pressure, may explode if heated (*)
Health Hazards	H303 maybe harmful if swallowed H315 Causes skin irritation H319 Causes serious eye irritation H335 may cause respiratory irritation
Environmental Hazards	
Combinations	
Precautionary Statements	
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 (*) P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection
Response	P312 Call a Poison center or doctor/physician if you feel unwell. P301 + P322 + P331 If swallowed, drink 2-3 glasses of water and do not induce vomiting. P321 Specific treatment (see section 4 : First aid measures) P362 Take off contaminated clothing and wash before reuse 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	P403 + P233 Store in a well-ventilated place. Keep container tightly closed. 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 %)
Mono Ammonium Phosphate	7722-76-1	>90%
Mica	12001-26-2	<5.0%
Silica White (amorphous silica)	7631-86-9	<3.0%
Methyl Hydrogen Polysiloxane (Silicone oil)	63148-57-2	<1.0%
Pigment (yellow)	6358-85-6	<1.0%
Nitrogen (Expellant only when extinguisher is 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 coughing, shortness of breath and irritation to the lungs. 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

If victim is conscious and alert, give plenty of water 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 dry chemical may aggravate existing chronic respiratory problems e.g., asthma, emphysema, or bronchitis. Skin contact may aggravate existing skin diseases. Chronic overexposure may cause pneumoconiosis (dusty lung disease).

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 ammonia, phosphorous oxides, and carbon oxides.

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. Increase ventilation.



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

If possible, contain the spill avoiding dust formation. Sweep or vacuum up contents and place in sealed labelled container for recovery or disposal. Do not mix with other extinguishing agents, particularly potassium bicarbonate and sodium bicarbonate. Incompatible with strong oxidizing agents and strong acids.

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).

Avoid inhalation of dust and skin or eye contact. Use only in a well ventilated area. Prevent the buildup of dust in the work atmosphere. Maintain high standards of personal hygiene i.e., Washing hands prior to eating, drinking, smoking, or using toilet facilities.

Environmental Precautions:

Prevent the buildup of dusts in the work atmosphere. Ensure that storage conditions comply with applicable local and national regulations.

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, particularly potassium bicarbonate and sodium bicarbonate. Incompatible with strong oxidizing agents and strong acids. Do not store in high humidity. Do not combine with chlorine compounds.

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
Mono-ammonium Phosphate	PNOC (*) Total dust 15 mg/m ³ Respirable fraction 5 mg/m ³	PNOC Total dust 10 mg/m ³ Respirable fraction 3 mg/m ³
Mica	6 mg/m ³	3 mg/m ³
Silica White (amorphous silica)	20 mppcf / 80mg/m ³ or SiO ₂	10 mg/m ³
Methyl Hydrogen Polysiloxane (Silicone oil)	Not regulated	Not regulated
Pigment	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 use of a dust mask or respirator is prudent. The need for respiratory protection is not likely for short-term use in well-ventilated areas. Use with good general ventilation. If solids/dusts are produced, local exhaust ventilation should be used. 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 or full face purifying respirator.
- Skin Protection : Chemical resistant gloves nitrile, latex or similar gloves and coveralls.
- Respiratory Protection : Wear 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:	Powder / Solid / Yellow
Odor:	No Odor warning properties
pH	N/A
Melting Point	>100°C (> 212°F)
Density (at 20°C) : g/cm ³	0.80 - 0.90
Flash Point (°C)	Non-flammable
Explosive of Oxidizing Properties	None
Water Solubility (g/l)	>90% after several hours (product is silicone coated, not immediately soluble)
Flammability Range (Vol% In Air):	Non Flammable.
Other Information:	Stability in Temperature: -60°C ~+60°C (-76°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) : g/cm ³	0.0725lb/ft ³ as a vapor (0.00116 g/cm ³)
Flash Point (°C)	Non-flammable
Explosive of Oxidizing Properties	None
Water Solubility (g/l)	N/A
Flammability Range (Vol% In Air):	Non-flammable
Other Information:	N/A

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 alkalis, magnesium, swimming pool sanitizers (inorganic perchlorates, sodium dichloroisocyanurate dehydrate, trichloroisocyanuric acid, calcium hypochlorite, and other strong oxidizers). Do not mix with other extinguishing agents, particularly potassium bicarbonate and sodium bicarbonate.

HAZARDOUS DECOMPOSITION PRODUCTS

Ammonia and/or phosphorous oxides and carbon oxides 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	Target organs in humans: respiratory system, eyes, and skin.
Chronic toxicity	Pneumoconiosis, or "Dusty Lung" disease, may result from chronic exposure to any dust.
Eye Contact:	Minor irritant, Possibility of transient irritation.
Skin Contact:	May be mildly irritating. This product is an irritant to epithelial tissue and may aggravate dermatitis. No indication that the product causes sensitization
Inhalation:	Treat as a mineral dust. Irritant to the respiratory tract. Transient cough and shortness of breath may occur. Pneumoconiosis, or "Dusty Lung" disease, may result from chronic exposure to any dust
Ingestion:	Although not an expected route of entry, if ingested, may cause discomfort.
Chronic Overexposure	Chronic fibrosis of the lung, pneumoconiosis.
Reproductive toxicity	This product is not known to have any reproductive effects
Nitrogen	Simple asphyxiant. Exposure at high concentrations can cause suffocation by reducing the available oxygen

TOXICITY DATA:

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

MONOAMMONIUM PHOSPHATE

TDLo (oral, man) = 150 mg/kg

LD50 (oral, rat) = 3000 mg/kg

LD50 (intraperitoneal, rat) = 610 mg/kg

SUSPECTED CANCER AGENT: This product's ingredients are not found on the following lists: FEDERAL, OSHA Z LIST, NTP, CAL/OSHA. A variety of silica forms (i.e., Crystalline, fumed) reported in IARC as a Group 3 Compound (Human Inadequate Evidence: Animal Inadequate Evidence).

SECTION 12 : ECOLOGICAL INFORMATION

INFORMATION ON ELIMINATION:

ABC dry chemical powder contains mono-ammonium phosphate which is a soil fertilizer. Provides nutrient nitrogen and phosphorus to plant life

**DEGRADEABILITY:**

The product is bio-degradable.

BIOACCUMILATION POTENTIAL

Unknown extent.

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. Extinguishing agent, normally as fertilizer through an approved specialized company according to local and current authority 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	Yes
Chronic health hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	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	Mica dust
Illinois Toxic Substance List - None	No
Kansas Section 302/303 List - None	None
Massachusetts Substance list- Mica dust Minnesota List of Hazardous Substances	Mica dust
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	Mica dust
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 : No component listed

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

END OF SDS.