

SAFETY DATA SHEET

According to the REACH Regulations (EC) 1907/2006
amended by Regulation (EU) 2020/878



VICTORY ZX GmbH

Lerchenfeldstr. 72, 47877 Willich-Anrath

Phone: +49 (0) 2156 91499 77

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Web: www.zxhpgas.com

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

1.1 PRODUCT IDENTIFIER

Product name: Fire extinguishers containing potassium salts in aqueous solution (pressurised or unpressurised).
Product codes: WC6 (model pressurised with nitrogen).
Refills containing potassium salts in aqueous solution.

1.2 RELEVANT IDENTIFIED USES OF SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

1.2.1 Relevant identified uses
Use of substance / mixture: Fire extinguishing agent in a container pressurised with nitrogen for use as a fire extinguisher.
Function or use category: Suitable for Class A fires and Class F fires.

1.2.2 Uses advised against
Not for human or animal ingestion or drug use.
Do not use for class B, class C or class D fires.
Do not use on Lithium-Ion battery fires.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier: VICTORY ZX GMBH
Street: Lerchenfeldstr. 72,
Postal City/Postal Code/Country: 47877 Willich-Anrath
Company telephone: +49 (0) 2156 91499 77 (08.30-17.00 Monday- Friday)
Website / Email: www.victoryzx.de
National Contact: sales@victoryzx.de

1.4 EMERGENCY TELEPHONE NUMBER

Emergency telephone number: VICTORY ZX GMBH (08.30-17.00 Monday- Friday)
Tell+49 (0) 2156 91499 77
Medical emergency: In a medical emergency, immediately call the emergency number 112 and contact the responsible regional poison control centre.

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE:

EU Regulation (EC) No. 1272/2008 (CLP):

H280 Contains gas under pressure; may explode if heated. Note: Only when pressurised with Nitrogen.

Adverse physicochemical, human health and environmental effects:

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practices.

2.2 LABEL ELEMENTS

Labelling according to Regulation (EC) No. 1272/2008 (CLP).

The table below shows the labelling elements associated with classification in accordance with CLP but not required on extinguisher labelling. See Eurofeu.org Position Paper (Sept 2015) concerning non-CLP labelling of Fire Extinguishers.

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

Note: (*) only applies when extinguisher is pressurised

2.3 OTHER HAZARD

This product does not contain any substances $\geq 0.1\%$ that have been assessed as PBT and/or vPvB in accordance with REACH Annex XIII regulations.

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The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 %.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Not applicable.

3.2 MIXTURES

The product is a mixture. Preparation based on potassium salts in aqueous solution. Not a product specification

Chemical Name	Registration No.	Index No.	CAS No.	EC No.	Content (% wt.)	Classification
Potassium Acetate (C ₂ H ₃ KO ₂)	-	-	127-08-2	204-822-2	<10%	Not applicable
Potassium Citrate (C ₆ H ₅ O ₇ K ₃) (**)	-	-	866-84-2	212-755-5	<30%	Not applicable
Nitrogen (*)	Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.	-	7727-37-9	231-783-9	Propellant	Not classified
Water	-	-	7732-18-5	231-791-2	>60%	Not applicable

(*) Propellant for stored pressure portable models: - non-toxic, non-flammable compressed gas.

(**) Monohydrate form used in recipe. ECHA CAS number is for anhydrous form. Hydrate forms exempt when anhydrous is registered (REACH). Full text of H-Statements: See sections 2 and 16.

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

First aid measures general:

Take affected persons out of danger area and lay down.

In case of irregular breathing seek medical attention.

First aid measures after inhalation:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

First aid measures after skin contact:

Wash off immediately with plenty of soap and water. Get medical attention immediately if symptoms occur.

First aid measures after eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

First aid measures after Ingestion:

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms and effects:

None reasonably foreseeable.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

General information:

Mixture is an extinguishing agent and therefore non-flammable / non-combustible.

Suitable extinguishing media:

Use extinguishing media appropriate for surrounding fire and materials involved.

Unsuitable extinguishing media:

No product-specific restrictions

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Formation of toxic gases is possible during heating Pressurized container may explode when exposed to heat or flame.

or in case of fire the following compounds can be released: Fire, or heat will produce irritating and/or toxic gases.

5.3 ADVICE FOR FIRE FIGHTERS

Precautionary measures fire:

Evacuate area. Pressurized containers may rupture or burst when exposed to heat of a fire. If fire extinguisher exposed to fire cool with water from a safe distance.

Firefighting instructions:

Exercise caution when fighting any chemical fire.

Protection during firefighting:

Do not enter fire area without proper protective equipment, including self-contained respiratory protective device.

Use water spray or fog for cooling containers exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

General measures:

Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation.

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6.1.1 For non-emergency personnel

Protective equipment:

Use personal protective equipment (**Section 8**) to protect eyes, skin and clothing.

Emergency Procedures:

Ventilate spillage area.

6.1.2 For emergency responders

Protective equipment:

Do not attempt to take action without suitable protective equipment. For further information refer to section 8. "Exposure controls/ personal protection."

6.2 ENVIRONMENTAL PRECAUTIONS

Dilute with plenty of water. Avoid release to the environment. Collect all waste in suitable and labelled containers and dispose according to local legislation.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Method for cleaning up:

Take up liquid into absorbent material. This material and its container must be disposed of in a safe way as per local legislation.

Other information:

Dispose of materials or solids residues at an authorised site

6.4 REFERENCE TO OTHER SECTIONS

See Section 8 (PPE) for information on personal protection equipment.

See Section 13 (Disposal) for disposal information (Disposal).

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Protective measures:

Wear personal protective equipment (see Section 8).

Measures to prevent fire:

This product is non-flammable; no special fire protection measures are necessary.

Precautions for safe handling:

Prevent formation of aerosols

Ensure good ventilation of the workstation.

Wear personal protective equipment.

Measures to protect the environment:

Do not dispose of excess material or spillages into the drains.

Advice on general occupational hygiene:

Wash hands after use and regularly during use especially if contaminated.

In working areas do not eat, drink or smoke when using this product.

Remove contaminated clothing and protective equipment before entering eating areas.

Precautions for safe handling:

The product should be handled following good safety practices.

Handling and operation:

FIRE EXTINGUISHER :

Follow operational instructions on label.

For use only on class A and/or class F fires.

Safe for use on live electrical equipment up to 1000V.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Technical measures:

Comply with applicable local or national regulations.

Storage conditions:

Store only in original packaging until commissioned and installed as fire extinguisher.

Incompatible products:

Store away from oxidising agents.

Storage temperature:

0 - 50°C

Heat and ignition sources:

Avoid high temperatures. Protect from low temperatures and frost.

Storage area:

Contents under pressure – inspect for extinguisher rust or damage periodically to ensure container integrity.

Pressurized extinguishers should be safely stored and secured to prevent falling or being knocked over.

Keep refills in original containers until required.

Keep container in a well-ventilated place away from heat or direct sunlight.

7.3 SPECIFIC END USES (S)

Only for use as a **fire** extinguisher. (See **section 1**) .

Observe instructions for use.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

8.1.1 Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace:

8.1.2 Recommended monitoring procedures

No additional information available.

8.1.3 Air contaminants formed

No additional information available.

8.1.4 DNEL and PNEC

No additional information available.

8.1.5 Control banding

No additional information available.

8.2 EXPOSURE CONTROLS

8.2.1 Appropriate engineering controls

Appropriate engineering controls:

Periodically check that the fire extinguisher is pressurised (pointer in green).

8.2.2 Personal protective equipment

Personal protective equipment:

Using Fire Equipment for Fire Fighting - Individual protection measures, e.g. personal protective equipment: As the fire extinguisher an emergency device, there are no individual protection to be worn. If possible, prior to use, wear protective gloves, goggles with side protection and a dust mask.

Personal protective equipment symbol(s).



The following Guidelines apply: For Fire extinguisher maintenance or handling the Wet Chemical agent.

8.2.2.1 Eye and face protection

Eye protection:

Tightly sealed goggles.

8.2.2.2 Skin protection

Skin and body protection:

Hand protection

Wear suitable protective clothing.

Only use chemical-protective gloves with CE-labelling of category III.

The glove material must be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times rates of diffusion and the degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time must be found out by the manufacturer of the protective gloves and must be observed.

Not necessary if room is well-ventilated.

8.2.2.3 Respiratory protection

8.2.3 Environmental exposure controls

Environmental Exposure Controls:

Contain spills and unnecessary release to the environment. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Ensure all national/local regulations are observed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Extinguishing agent – Premix in Extinguisher or Refill	
Physical state	Liquid
Colour	Colourless
Odour	Odourless
Odour threshold	No data available
pH	7.0 - 9.0
Melting point/Freezing point °C	Minus 8
Initial boiling point and boiling range: °C	No data available
Flash Point °C	No data available
Autoignition temperature °C	No data available
Decomposition temperature °C	No data available
Flammability (solid, gas)	No data available
Vapour pressure	Not applicable
Relative vapour pressure at 20°C	No data available

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Relative density	No data available
Density g/cm ³	1.13 - 1.16
Solubility	Completely soluble in water at ambient conditions
Partition coefficient n-octanol/water (log Kow)	No data available
Kinematic viscosity mm ² /s	1.9 - 2.1
Dynamic viscosity Pa.s	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

Information on basic physical and chemical properties – propellant

Propellant – Nitrogen	
Appearance	Colourless
Odour:	Odourless
pH	Not applicable
Melting Point °C	Not applicable
Density (at 20°C): g/cm ³	0.0013
Flash Point (°C)	Non-flammable
Explosive of Oxidizing Properties	None
Water Solubility (g/l)	N/A
Flammability Range (Vol% In Air):	Non-flammable

9.2 OTHER INFORMATION

9.2.1 Other safety characteristics No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

The product is non-reactive under normal conditions of use, storage, and transport.

10.2 CHEMICAL STABILITY

Stable at normal ambient temperatures and when used as recommended.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available.

10.4 CONDITIONS TO AVOID

None under recommended storage and handling conditions (see section 7)

10.5 INCOMPATIBLE MATERIALS

No additional information available

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity	Based on available data, the classification criteria are not met.
Primary irritant effect:	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Additional toxicological information: CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

Ecology – general:	The product is not considered harmful to aquatic organisms nor to cause long term adverse effects in the environment.
Hazardous to aquatic environment, short-term (acute):	Not classified.
Hazardous to aquatic environment, long-term (chronic):	Not classified.

12.2 PERSISTENCE AND DEGRADABILITY

Readily biodegradable

12.3 BIOACCUMULATIVE POTENTIAL

No data available.

12.4 MOBILITY IN SOIL

No data available.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

The substances in the mixture do not meet the PBT/VPVB criteria according to REACH, annex XIII.

12.6 ENDOCRINE DISRUPTING PROPERTIES

This product does not contain a substance that has endocrine

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disrupting properties with respect to non-target organisms as no components meet the criteria.

No adverse effects expected if regulations and advice for storage and handling are observed.

12.7 OTHER ADVERSE EFFECTS

SECTION 13: DISPOSABLE INFORMATION

13.1 WATER TREATMENT METHODS

This product is not classified as hazardous waste under the EC Directive 2008/98/EC or as hazardous waste under the Hazardous Waste (England and Wales) Regulations SI 2005 No.894.

Dispose of according to national / regional/local legislation for aqueous potassium salt solutions. Small spills may be flushed with large volumes of water to sewer systems only if allowed by local regulations

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA / ADN / RID / (* only as pressurised extinguishers). Always check stated transport regulations as subject to change.

14.1 UN Number or ID Number (*)

UN-No. (ADR):	UN1044.
UN-No. (IMDG):	UN1044.
UN-No. (IATA):	UN1044.
UN-No. (ADN):	UN1044.
UN-No. (RID):	UN1044.

14.2 UN Proper Shipping Names (*)

Proper shipping names. (ADR):	Fire Extinguishers.
Proper shipping names. (IMDG):	Fire Extinguishers.
Proper shipping names. (IATA):	Fire Extinguishers.
Proper shipping names. (ADN):	Fire Extinguishers.
Proper shipping names. (RID):	Fire Extinguishers.

14.3 Transport Hazard Class(es) (*)

ADR – Transport hazard class(es):	2.2.
IMDG – Transport hazard class(es):	2.2.
IATA – Transport hazard class(es):	2.2.
ADN – Transport hazard class(es):	2.2.
RID – Transport hazard class(es):	2.2.

14.4 Packing Group (*)

Packing group ADR:	Not applicable.
Packing group IMDG:	Not applicable.
Packing group IATA:	Not applicable.
Packing group ADN:	Not applicable.
Packing group RID:	Not applicable.

14.5 Environmental Hazards

Dangerous for the environment:	No.
Marine pollutant:	No.
Other information:	No supplementary information available.

14.6 Special Precautions for User

Overland transport:	Consult current ADR Regulations prior to shipping by road.
Transport by sea:	Consult current IMDG Regulations prior to shipping by sea.
Air transport:	Consult current IATA Regulations prior to shipping by air.
Inland waterway transport:	Consult current ADN Regulations prior to shipping by inland waterway.
Rail transport:	Consult current ADR Regulations prior to shipping by rail.

14.7 Maritime Transport in Bulk Container to IMO Instruments

Consult current IMO Regulations prior to shipping by sea.

SECTION 15: REGULATORY INFORMATION

15.1 HEALTH, AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

15.1.1 EU Regulations

REACH Annex XVII (Restrictions List):

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisations List):

Contains no substance(s) listed on REACH Annex XIV (Authorisations List)

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REACH Candidate List (SVHC):

PIC Regulation List (Prior Informed Consent):

POC Regulation List (Persistent Organic Pollutants):

Ozone Regulation (2024/590):

Explosives Precursors Regulation (2019/1148):

Drug Precursors Regulation (273/2004):

Seveso regulations 96/82/CE:

Contains no substance(s) listed on REACH Candidate List.

Contains no substance(s) listed on PIC list (Regulation EU649/2012 concerning the export and import of hazardous chemicals).

Contains no substance(s) listed on POP list (Regulation EU2019/1021 concerning persistent organic pollutants).

Contains no substance(s) listed on Ozone Depletion list (Regulation EU 2024/590) concerning substances that deplete the ozone layer.

Contains no substance(s) listed on Explosives Precursors list (EU Regulation 2019/1148 concerning marketing and use of explosive precursors).

Contains no substance(s) listed on Drug Precursors list (EU Regulation 273/2004 on the manufacture and the placing on the market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances).

Not included

15.2 CHEMICAL SAFETY ASSESSMENT

No chemical safety assessment has been carried out by the supplier.

SECTION 16: OTHER INFORMATION

LEGEND / Abbreviations and acronyms.

ADN	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 Abstract Service Number
CLP	Classification Labelling Packaging Regulation: Regulation (EC) No. 1272/2008
EC No.	European Community number
EN	European standard
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association Dangerous Goods Regulations
IMDG	International Maritime Code for Dangerous Goods
IMO	International Maritime Organization
PBT	Persistent Bio Accumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulations (EC Regulation 1907/2006)
RID	Regulation Concerning the International Transport of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bio Accumulative
STOT	Specific Target Organ Toxicity
WEL: 8 h TWA	Workplace Exposure Limit: 8-hour Time Weighted Average

KEY LITERATURE REFERENCES AND SOURCES FOR DATA

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) AS AMENDED. REGULATION (EC) 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL AS AMENDED. DATA FROM MANUFACTURERS OF THE SUBSTANCE/MIXTURE, IF AVAILABLE FROM INGREDIENT SUPPLIERS AND REGISTRATION DOSSIERS.

OTHER INFORMATION: The fire extinguisher is not classified as a substance or item in accordance with Regulation (EC) no. 1907/2006 EC. Therefore, they must be considered as articles, no substance is intended to be released during handling. Therefore, there is no obligation to provide a safety data sheet SDS as required by Article (EC) no. 1907/2006 EC, Article 31.

DISCLAIMER OF LIABILITY: The information contained in the present sheet is based on our own knowledge and believed accurate and reliable. This information is based on current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This information in this safety data sheet applies to the specific products (mentioned section 1) and not necessarily correct for use with other chemicals/products.

Full text of H- and EUH-statements

H280 (*)

Contains gas under pressure; may explode if heated

(*) Only applies when extinguisher is pressurised with propellant.

END OF SDS