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PORTABLE FIRE EXTINGUISHER - STORED PRESSURE - XF

SECTION 1 – Identification of the substance/mixture and of the company/undertaking		
1.1 – Product identifier	PORTABLE FIRE EXTINGUISHER	
	Stored pressure – FS6-LH(Z) XF, FS9-LH(Z) XF	
1.2 - Relevant identified uses	Relevant identified uses: Fire extinguisher for type A and B fires.	
of the substance or mixture	Uses advised against: uses other than those identified as relevant.	
and uses advised against		
1.3 – Details of the supplier of	ANAF FIRE PROTECTION S.P.A.	
the safety data sheet	Via del Commercio, 4	
	27020 Torre d'Isola (PV), Italy	
	Tel.: +39 (0)382 45 33	
	Fax.: + 39 (0)283 92 02 79	
	e-mail: <u>info@anaf.eu</u>	
	internet: www.anaf.eu	
1.4 – Emergency telephone	Tel.: +39 (0)382 45 33	
number	Number available only at the following:	
	8.30-12.30, 13.30-17.30 (UTC) – Monday to Friday	

SECTION 2 – Hazards identification

2.1 – Classification of the substance or mixture	Classification of the substance or mixture according to Reg. (EC) no. 1272/2008 Not applicable since the product described by this SDS is defined as "article".
2.2 - Label elements	Not applicable since the product described by this SDS is defined as "article".
2.3 – Other hazards	Identification as PBT, vPvB: the article doesn't contain any substance meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of Reg. (EC) 1907/2006 (REACh).
	Identification as endocrine disrupting properties: the article doesn't contain any substance included in the list established in accordance with Article 59(1) of Reg (EC) 1907/2006 (REACh) for having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 of Commission Regulation (EU) 2018/605.
	Information on other hazards which do not lead to classification: In the event of contact with the eyes, the product causes considerable irritation which can last for more than 24 hours

SECTION 3 – Composition/information on ingredients

3.1 – Substances	Not relevant.	

3.2 - Mixtures

Refer to section 16 for the full text of the hazard statements



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Extinguishing agent

Substance	Identification number	REACH registration number	Quantity (% weight)	Classification (Reg. EC no. 1272/2008)
urea	CAS 57-13-6 EC 200-315-5	Not available	0,3 - 0,9%	Not classified
2-(2- butoxyethoxy)ethanol	CAS 112-34-5 EC 203-961-6 Index: 603-096-00-8	Not available	0,1 – 0,3%	Eye Irrit. 2, H319
ethane-1,2-diol	CAS 107-21-1 EC 203-473-3 Index: 603-027-00-1	Not available.	0,1 – 0,2%	Acute Tox.4 (oral), H302
sulfuric acid, mono- C12-14-alkyl esters, compds. with triethanolamine	CAS 90583-18-9 EC 292-216-9	Not available.	< 0,2%	Acute Tox.4 (oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
sodium octyl sulphate	CAS 142-31-4 CE 205-535-5	01-2119966154-35	< 0,2%	Skin Irrit. 2, H315 Eye Dam. 1, H318

Gas propellant

Substance	Identification number	REACH registration number	Quantity (% weight)	Classification (Reg. EC no. 1272/2008)
nitrogen, compressed	CAS 7727-37-9 EC 231-783-9	substance not subject to registration (included in Annex IV and V, Reg. REACH)	100%	H280 Press. Gas (Comp.)

SECTION 4 – First aid measures

The information refers to the extinguishing agent.

4.1 – Description of first aid	
measures	

<u>Inhalation:</u> remove the patient from the contaminated environment and keep him

at rest in a well-ventilated area. In case of injury consult a doctor. Skin contact (of the pure product): wash thoroughly with water.

<u>Eye contact:</u> wash immediately with plenty of water for at least 20 minutes, also under eyelids. If the symptom persists, consult a specialist doctor.

<u>Ingestion:</u> in case of injury consult a doctor.

4.2 – Most important symptoms and effects, both acute and delayed

Inhalation: no known effects.
Skin Contact: no known effects.
Eye Contact: weak irritation.
Ingestion: no known effects

4.3 – Indication of any immediate medical attention and special treatment needed

Treat symptomaticaly

SECTION 5 – Firefighting measures

5.1 – Extinguishing media	<u>Suitable fire-extinguishing methods</u> : not applicable. The product is a fire-extinguisher for type A and B fires. Unsuitable fire-extinguishing media: not applicable.			
5.2 – Special hazards arising	When heated to decomposition, toxic vapors may be released.			
from the substance or mixture 5.3 – Advice for firefighters	Exposure to flames or excessive heat may cause the container to break or explode. Specific methods of fighting fires: (information relating to the extinguishing agent)			
	open doors and windows of the room to allow maximum ventilation. Avoid breathing vapours. Position yourself in favor of the wind in relation to the fire.			

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Special protection in fighting fires: in case of presence of vapours, use selfcontained breathing apparatus. Dispose of fire residues and contaminated water according to official regulations.

SECTION 6 – Accidental release measures

The information refers to the extinguishing agent.

6.1 – Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel: wear safety mask, gloves and proctive

clothes.

<u>6.1.2 For emergency responders</u>: wear safety mask, gloves and proctive clothes.

Ensure adequate vantilation.

6.2 - Environmental precautions

Avoid release into the environment

6.3 - Methods and material for containment and cleaning up

6.3.1 For containment: collect the product for re-use, if possible, or disposal. 6.3.2 For cleaning: after collection, wash the affected area and materials with

<u>6.3.3 Other information:</u> nothing in particular.

6.4 - Reference to other sections

Refer to sections 8 and 13 for more information.

SECTION 7 – Handling and storage

The information refers to the extinguishing agent.

7.1 – Precautions	for	saf	е
handling			

Ensure adequate ventilation.

Avoid contact with eyes and skin.

Do not eat, drink or smoke while handling. After handling, wash your hands with soap and water. Contaminated work clothing must not be taken out of the workplace. For exposure controls and personal protection measures, see section

7.2 - Conditions for safe storage, including any incompatibilities

Keep in the original container tightly closed. Do not store in open or unlabeled containers. Keep containers in a vertical and safe position, avoiding the possibility of falls or impacts. Store in a cool place, away from any heat source and direct exposure to sunlight. Storage temperatures 0 °C/+50 °C. Do not store if partially

7.3 – Specific end use(s)

Mixture approved as an extinguishing agent for type A and B fires.

SECTION 8 – Exposure controls/personal protection

The information refers to the extinguishing agent.

8.1 - Control parameters

2-(2-butoxyetnoxy)ethanol (CAS: 112-34-5)	
EUROPEAN UNION – Professional exposure limit value -	Exp. 8 h: 67,5 mg/m ³ , 10 ppm
Recommended	Exp. short term: 101,2 mg/m³, 15 ppm
MAK	10 ml/m ³ – 67 mg/m ³
	Peak limiting category: I(1)
	Pregnancy risk group: C (DFG 2003)
DNEL – Systemic effects, long term, workers, inhalation	67,5 mg/m ³
DNEL – Systemic effects, long term, workers, dermal	20 mg/kg bw/day
DNEL – Systemic effects, long term, population, inhalation	34 mg/m ³
DNEL – Systemic effects, long term, population, dermal	10 mg/kg bw/day
DNEL – Systemic effects, short term, population, oral	1,25 mg/kg bw/day
DNEL – Local effects, long term, workers, inhalation	67,5 mg/m ³
DNEL – Local effects, long term, population, inhalation	34 mg/m ³

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DNEL – Local effects, short term, population, inhalation	50,6 mg/m ³
PNEC – Fresh water	1 mg/L
PNEC – Sediments, fresh water	4 mg/kg sediments
PNEC – Sea water	0,1 mg/L
PNEC – Sediments, sea water	0,4 mg/kg sediments
PNEC – Intermittent emissions	3,9 mg/L
PNEC – STP	200 mg/L
PNEC - Soil	0,4 mg/kg soil

Glicole etilenico (CAS: 107-21-1)

EUROPEAN UNION	N – Professiona	al exposure limit value -	Exp. 8 h: 52 mg/	g/m ³ , 20 ppm	1
Recommended			Exp. short term	(15 minutes average time): 104 mg/m ³ , 40 ppm	

8.2 - Exposure controls

8.2.1 Appropriate technical controls

During handling do not eat, drink or smoke. Wash your hands after handling the product and before eating, drinking or smoking. Observe the usual safety measures when handling chemicals.

Systems under pressure must be checked periodically for leaks.

8.2.2. Individual protection

<u>Eye/face protection</u>: use safety goggles (frame goggles). <u>Hand protection</u>: not necessary in case of normal use.

Other: wear work protective clothes.

Respiratory protection: not necessary in case of normal use.

Thermal hazards: no hazards to report.

<u>Environmental exposure controls</u> use according to good working practices, avoiding dispersal of the product in the environment.

SECTION 9 - Physical and chemical	hioh
9.1 – Information on basic	a. pi
physical and chemical properties	b. co

properties		
a. physical state	pressure vessel (fire extinguisher)	
b. colour	not applicable	
c. odour	not applicable	
d. melting point/freezing point	not applicable	
e. boiling point or initial boiling point and boiling range	not applicable	
f. flammability	not flammable	
g. lower and upper explosion limit	not applicable	
h. flash point	not applicable	
i. auto-ignition temperature	not applicable	
j. decomposition temperature	not applicable	
k. pH	Extinguishing agent: 6-9	
I. kinematic viscosity	not applicable	
m. solubility	entirely water soluble	
n. partition coefficient n- octanol/water (log value)	not applicable	
o. vapour pressure	not applicable	
p. density and/or relative density	1.06-1.2 g/cm ³	
q. relative vapour density	not applicable	



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	r. particle characteristics	not relevant
9.2 - Other information	Information relating to physical hazard classes:	
	The fire extinguisher contains an under pressure asphyxiant gas.	

SECTION 10 – Stability and react	tivity
The information refers to the extingu	ishing agent.
10.1 – Reactivity	No risk of reactivity.
10.2 – Chemical stability	No hazardous reactions if handled or stored in accordance with regulations.
10.3 – Possibility of hazardous reactions	No dangerous reactions are expected.
10.4 – Conditions to avoid	None, if normal storage conditions apply
10.5 - Incompatible materials	None, if normal storage conditions apply
10.6 – Hazardous decomposition products	None, if normal storage conditions apply

SECTION 11 – Toxicological information

The information refers to the extinguishing agent.

ATE(mix) oral = ∞

 $ATE(mix) dermal = \infty$

ATE(mix) dermal = ∞	
ATE(mix) inhal = ∞	
11.1 – Information on hazard classes as defined in Regulation (EC) No 1272/2008	a. acute toxicity: based on available data, the classification criteria are not met. 2-(2-butoxyethoxy)ethanol: DL50 (oral, rat): 2410 mg/kg bw DL50 (dermal, rabbit): 2700 mg/kg bw
	b. skin corrosion/irritation: based on available data, the classification criteria are not met. 2-(2-butoxyethoxy)ethanol: skin dryness
	c. serious eye damage/irritation: based on available data, the classification criteria are not met. 2-(2-butoxyethoxy)ethanol: eye pain, irritant to eyes.
	d. respiratory or skin sensitisation: based on available data, the classification criteria are not met.
	e. germ cell mutagenicity: based on available data, the classification criteria are not met. f. carcinogenicity:
	based on available data, the classification criteria are not met.
	g. reproductive toxicity: based on available data, the classification criteria are not met.
	h. STOT-single exposure: based on available data, the classification criteria are not met.
	i. STOT-repeated exposure: based on available data, the classification criteria are not met.
	<u>2-(2-butoxyethoxy)ethanol: degreases the skin.</u> j. aspiration hazard: based on available data, the classification criteria are not met.
11.2 – Information on other hazards	a. endocrine disrupting properties: The mixture does not contain any endocrine-disrupting substances. b. other information:

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no data available.

SECTION 12 – Ecological inform	nation	
The information refers to the exting	uishing agent	
12.1 – Toxicity	2-(2-butoxyethoxy)ethanol o: DL50 (fish, 96h): 1300 mg/L CE50 (invertebrates (<i>Daphnia Magna</i>), 48h): 100 mg/L CE50 (algae, 192h): 53 mg/L C(E)L50 (algae): 100 mg/L	
12.2 – Persistence and degradability	2-(2-butoxyethoxy)ethanol: short-term hazardous degradation products are not likely. However, long-term degradation products can arise. 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 product does not contain any persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) substances in concentrations of 0.1% or higher.	
12.6 – Endocrine disrupting properties	No data available.	
12.7 - Other adverse effects	No adverse effects found.	

SECTION 13 – Disposal considerations

13.1 – Waste treatment methods	Residues must be disposed of in compliance with current regulations by delivering the empty containers to an authorized waste disposal company.
	Recover if possible. Operate according to local or national regulations in force. For handling and measures in the event of accidental dispersion of the waste, the indications provided in sections 6 and 7 generally apply; however, specific precautions and actions must be evaluated in relation to the composition of the waste.
	Resort to waste disposal after having evaluated the possibilities of reuse or reuse in the same or another production cycle, or of recovery from authorized companies in accordance with current legislation. Disposal via discharge into sewage is not permitted.

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14.1 – UN number or ID	Regulations	UN number
number	ADR/RID/ADN	
	IMDG Code	UN 1044
	ICAO-TI/IATA-DGR	
14.2 – UN proper shipping name	Regulations	Proper shipping number
		(the small print description is not part
		of the official shipping name)
	ADR/RID/ADN	FIRE EXTINGUISHERS with
		compressed or liquefied gas
	IMDG Code	FIRE EXTINGUISHERS with
		compressed or liquefied gas
	ICAO-TI/IATA-DGR	FIRE EXTINGUISHERS with
		compressed or liquefied gas
14.3 – Transport hazard	Regulations	Transport hazard class(es)
class(es)	ADR/RID/ADN	Class 2
		Label 2.2
		Classification code 6A
	IMDG Code	Division 2.2
	ICAO-TI/IATA-DGR	Division 2.2
14.4 – Packing group	Regulations	Packing group
	ADR/RID/ADN	
	IMDG Code	not applicable
	ICAO-TI/IATA-DGR	
14.5 – Environmental hazards	Regulations	Environmental hazards
	ADR/RID/ADN	
	IMDG Code	not applicable
	ICAO-TI/IATA-DGR	• • • • • • • • • • • • • • • • • • • •

14.6 – Special precautions for user

All phases of preparation, handling and transport of dangerous goods, including packaging, documentation, marking and labelling, loading and unloading activities, must be carried out by personnel who have received the necessary training required by the modal regulations.

Specific provisions for ADR/RID/ADN

The fire extinguisher is manufactured, tested, approved and labelled in accordance with the provisions applied in the country of manufacture (as per Special Provision 225).

This article is manufactured and filled in accordance with the provisions applicable in the country of manufacture and is equipped with protection against accidental discharge. If packed according to the provisions described in Special Provision 594, it is not subject to the provisions of ADR/RID/ADN.

Specific provisions for the IMDG-Code:

The fire extinguisher is manufactured, tested, approved and labelled in accordance with the provisions applied in the country of manufacture (as per Special Provision 225).

Specific provisions for ICAO-TI/IATA-DGR:



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The fire extinguisher is manufactured, tested, approved and labelled in accordance with the provisions applied in the country of manufacture (as per Special Provision A19).

14.7 – Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15 – Regulatory information

15.1 – Safety, health and environmental regulations/legislation specific for the substance or mixture

Reg. (EC) n. 1907/2006 (REACH)

The mixture contains substances subject to restriction, included in Annex XVII of the REACH Reg. However, these restrictions do not apply to this type of product.

Reg. (EC) n. 1272/2008 (CLP)

The mixture contains a substance included in the list of substances with harmonized classification (Annex VI, part 3).

Directive (EC) n. 2006/15

The mixture contains a substance for which occupational exposure limits have been set at Community level.

WGK – German Water Hazard Class Substance n. 46 (2-(2-butoxyethoxy)ethanol)

WGK 1 – Low risk for water

nitrogen

Substance n. 1351 (nitrogen) Not hazardous for water.

15.2 - Chemical safety assessment

The supplier has not carried out a chemical safety assessment.

SECTION 16 – Other information

Document information

The product does <u>not</u> fall under the obligation to draw up and supply a Safety Data Sheet, as it meets the definition of "article". However, the product supplier has drawn up this document, on a voluntary basis, according to the standard required for SDSs, as governed by Annex II of Reg. (EC) 1907/2006 as amended by Reg. (EU) 2020/878.

Notice to users

This document is intended to provide guidance: 1) for appropriate and careful handling of the product by qualified personnel or personnel who work under the supervision of personnel skilled in the handling of chemical substances; 2) for emergency management; 3) for the assessment and management of risks deriving from the use, handling, transport and storage of the product. The product must not be used for purposes other than those indicated in section 1. The information contained in this SDS is based on the knowledge available at the date of compilation relating to the requirements for safety, health, environmental protection and correct use of the product.

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The person responsible for this document cannot provide warnings about all the dangers deriving from the use or interaction with other chemicals or materials. The user is responsible for the safe use of the product, the adequacy of the product for the use for which it is applied and its correct disposal.

The information provided is not to be considered a declaration or guarantee, either expressed or implied, of merchantability, fitness for a particular purpose, quality, or of any nature.

The user must bear in mind the possible risks associated with a use other than that for which the product is supplied.

This SDS does not in any case dispense the user from knowledge and from the application of the set of regulations pertinent to his activity.

This SDS does not exempt the user from ensuring that he does not have obligations other than those mentioned and regulating the possession and use of the product for which he is solely responsible.

Change list

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Changes since the previous revision

-

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 [Number]: Chemical American Society [Number]

CE50: Median effective concentration

CL50: Average lethal concentration

DL50: Average lethal dose.

DNEL: Derived No Effect Level.

IARC: International Agency for Research on Cancer

ICAO-TI: International Civil Aviation Organization – Technical Instruction

IMDG-Code: International Maritime Dangerous Goods Code

LEL: Lower Explosion Level

PBT: Persistent, Bioaccumulative, Toxic

RID: European Agreement concerning the International Carriage of Dangerous Goods by Railroad

STOT: Specific Target Organ Toxicity

UEL: Upper Explosion Level

vPvB: very persistent, very bioaccumulative.

Hazard statements mentioned in the safety data sheet:

H280 (Press. Gas (Comp.)) Contains gas under pressure: may explode if heated.

H315 Skin Irrit. 2: causes skin irritation

H318 Eye Dam. 1: causes serious eye damage.

H319 Eye Irrit. 2: causes serious eye irritation.

H302 Acute Tox. 4 (oral): harmful if swallowed

H411 Aquatic Chronic 2: toxic to aquatic life with long lasting effects...

Bibliography:

SDS of components

ECHA website

IFA-Gestis website