

1. Identification

1.1 Product identifier

Product name: Fluorine Free Foam Fire Extinguisher (models EFS6FF & EFS9FF)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Portable fire extinguisher for use on fires (fire rating - class A & B)

Uses advised against: Any use other than fire-fighting purposes.

1.3 Details of the supplier of the safety data sheet

Company: Jactone Products Ltd
Springvale Business Park
Springvale Avenue
Bilston
West Midlands
WV14 0QL
UK
Telephone – +44 (0) 1902 357777
Web – sales@jactone.com

1.4 Emergency Telephone No.

Telephone No.: As above (office hours 08:30 – 16:30)

2 Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

- Gases under pressure - Compressed gas (H280)
- The mixture (extinguishing agent) is not classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

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

Hazard pictograms:



Signal word: Warning

Hazard statements:	H280	Contains gas under pressure; may explode if heated.
Precautionary statements:	P262	Do not get in eyes, on skin or on clothing
	P251	Do not pierce or burn, even after use.
	P280	Wear protective gloves/protective clothing/eye protection/hearing protection/
	P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.

2.3 Other hazards

Endocrine disrupting properties

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

The substances in the mixture do not have endocrine disrupting properties with respect to humans.

Results of PBT and vPvB assessment

Preparation related information

There are no data available on the mixture itself

Information on ingredients

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

Fire Extinguisher

The extinguisher is a pressurised container. It must not be pierced or exposed to excessive heat. Under no circumstances should any attempt be made to remove the valve while still pressurised. Improper or careless use may cause serious bodily injury or property damage.

Breathing is not possible whilst submerged in the foam. Take care when spraying people.

3 Composition / information of ingredients – Extinguishing Agent

3.1 Substances

Not applicable

3.2 Mixtures (extinguishing agent)

Component	CAS No.	EC No.	Concentration	Classification (CLP)
A	–	–	Proprietary	Not hazardous
B	–	–	Proprietary	Not hazardous at final dilution
Water	7732-18-5	231-791-2	Proprietary	Not hazardous
Nitrogen (propellant gas, compressed)	7727-37-9	231-783-9	Proprietary	Gases under pressure – Compressed gas (H280)

The product does not contain any relevant amounts of substances that are on the SVHC list.

4 First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.
Wash thoroughly the body (shower or bath).
Observe risk of aspiration if vomiting occurs
When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Provide fresh air.
Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

In case of skin contact

Wash immediately with: Water.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

Do NOT induce vomiting.
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

Dizziness
Nausea
Gastrointestinal complaints

4.3 Indication of any immediate medical attention and special treatment needed

If unconscious but breathing normally, place in recovery position and seek medical advice
IF SWALLOWED: Immediately call a POISON CENTER/doctor/

5 Firefighting measures

5.1 Extinguishing media

The product itself does not burn.
The extinguisher is a firefighting product. Use extinguishing media appropriate to the fire surroundings.

5.2 Special hazards arising from the substance or mixture

The product itself does not burn.
Cylinder may rupture or explode if exposed to fire.
Pressurised gas release may cause projectile hazard.

5.3 Advice for firefighters

Cool endangered containers with water spray.

Regardless of the admixture of a foam agent, extinguishing water can be heavily contaminated with hazardous substances due to the absorption of fire residues and should therefore, if possible, not enter the sewage system or bodies of water.

Protective equipment: Wear self-contained breathing apparatus for firefighting if necessary.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes/skin.
Floors may become slippery.
Provide adequate ventilation.

6.2 Environmental precautions

Cover drains.
Do not allow extinguishing agent to enter into soil/subsoil.
Do not allow extinguishing agent to enter into surface water drains.

6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.
Treat the recovered material as prescribed in the section on waste disposal.
Suitable materials for taking up: Sand, Sawdust, Chemical binding agents containing acids.

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

7 Handling and storage

7.1 Precaution for safe handling

Handle extinguisher carefully; pressurised container.
Do not drop, crush, or expose to mechanical shock.
Avoid skin contact with extinguishing agent.
Avoid eye contact with extinguishing agent.
Wear personal protective equipment (refer to section 8).

7.2 Conditions for safe storage, including any incompatibilities

Store in upright position.
Do not store above 50°C.
Protect from direct sunlight and frost.

7.3 Specific end use(s)

Fire extinguisher for Class A & Class B risks.

8 Exposure controls / personal protection
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8.1 Control parameters

Not applicable

8.2 Exposure controls – extinguishing agent
Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes.
Remove contaminated, saturated clothing.
Wash contaminated clothing prior to re-use.
Wash hands before breaks and after work.
Apply skin care products after work.

Eye/face protection

Suitable eye protection.

Hand protection

Suitable gloves.

Body protection

Body protection: not required.

Respiratory protection

Usually, no personal respiratory protection necessary.

Environmental exposure controls

Do not let the extinguishing agent get into the environment.

9 Physical and chemical properties – extinguishing agent

9.1 Information on basic physical and chemical properties

a. Physical state	:	Liquid
b. Colour	:	Colourless / yellow
c. Odour	:	Glycol, Ether, Surfactant
d. Melting point/freezing point	:	0°C
e. Boiling point or initial boiling point and boiling range	:	> 100°C
f. Flammability	:	not applicable
g. Lower and upper explosion limit/flammability limit	:	No data available
h. Flash point	:	No flash point up to 100 °C.
i. Ignition temperature in °C	:	not applicable
j. Decomposition temperature	:	No data available
k. pH at 20°C	:	6,5 – 7,5
l. Viscosity at 20°C	:	1.0 – 1.10mm ² /s
m. Solubility	:	Water: completely miscible
n. Partition coefficient n-octanol/water (log value)	:	not applicable
o. Vapour pressure	:	No data available
p. Density and/or relative density at 20°C	:	1.00 – 1.01kg/dm ³
q. Relative vapour density	:	No data available
r. particle characteristics	:	not applicable

9.2 Other information

Information with regard to physical hazard classes

a. Explosives	:	not applicable
b. Aerosols	:	not applicable
c. Oxidising gas	:	not applicable
d. Gases under pressure	:	not applicable
e. Flammable liquids	:	not applicable
f. Flammable solids	:	not applicable
g. Self-reactive substances and mixtures	:	not applicable
h. Pyrophoric liquids	:	not applicable
i. Pyrophoric solids	:	not applicable
j. Self-heating substances and mixtures	:	not applicable
k. Substances or mixtures which, in contact with water, emit flammable gases	:	not applicable
l. Oxidising liquids	:	not applicable
m. Oxidizing solids	:	not applicable
n. Organic peroxides	:	not applicable
o. Corrosive to metals	:	See section 7
p. Desensitised explosives	:	not applicable
Other safety characteristics		
a. Mechanical sensitivity	:	not applicable
b. Self-accelerating polymerisation temperature (SAPT)	:	not applicable
c. formation of explosible dust/air mixtures	:	not applicable
d. Acid/alkaline reserve	:	not applicable
e. Evaporation rate	:	No data available
f. Miscibility	:	Water: completely miscible
g. Conductivity	:	No data available
h. Corrosiveness	:	Skin corrosion/irritation: none Serious eye damage/irritation: none

- i. **Gas group** : not applicable
- j. **Redox potential** : not applicable
- k. **Radical formation potential** : not applicable
- l. **Photocatalytic properties** : not applicable

Additional hazards

Breathing is not possible whilst submerged in the foam. Take care when spraying people.
Care should be taken when handling extinguishers as they are heavy.

10 Stability and reactivity

10.1 Reactivity

Stable under recommended storage / handling conditions.

Materials to avoid

Alkali (lye), concentrated
Alkali metals
Acid, concentrated
Oxidising agent, strong
Reducing agent, strong
Acid halides

10.2 Chemical stability

No special measures are necessary.

10.3 Possibility of hazardous reactions

No special measures are necessary.

10.4 Conditions to avoid

Do not store at temperatures above +50°C.

10.5 Incompatible materials

See section 7. No additional measures necessary.

10.6 Hazardous decomposition products

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11 Toxicology information – extinguishing agent

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

The mixture (extinguishing agent) is not classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

a) Acute toxicity

Preparation related information

There are no data available on the mixture itself

Acute dermal toxicity

Preparation related information

There are no data available on the mixture itself.

Acute inhalation toxicity

Preparation related information

There are no data available on the mixture itself.

b) Skin corrosion/irritation

Preparation related information

There are no data available on the mixture itself.

c) Serious eye damage/irritation

Preparation related information

There are no data available on the mixture itself.

d) Respiratory or skin sensitisation

Preparation related information

There are no data available on the mixture itself.

e) Germ cell mutagenicity

Preparation related information

There are no data available on the mixture itself.

f) Carcinogenicity

Preparation related information

There are no data available on the mixture itself.

g) Reproductive toxicity

Preparation related information

There are no data available on the mixture itself.

h) STOT-single exposure

Preparation related information

There are no data available on the mixture itself.

i) STOT-repeated exposure

Preparation related information

There are no data available on the mixture itself.

j) Aspiration hazard

Preparation related information

There are no data available on the mixture itself.

11.2 Information on other hazards

Endocrine disrupting properties

Preparation related information

There are no data available on the mixture itself.

The substances in the mixture do not have endocrine disrupting properties with respect to humans.

Other information

Breathing is not possible whilst submerged in the foam. Take care when spraying people

12 Ecological information – extinguishing agent

12.1 Toxicity

Acute (short-term) fish toxicity

Preparation related information

There are no data available on the mixture itself.

Acute (short-term) toxicity to aquatic invertebrates

Preparation related information

There are no data available on the mixture itself.

Acute (short-term) toxicity to algae and cyanobacteria

Preparation related information

There are no data available on the mixture itself.

Effects in sewage plants

Preparation related information

There are no data available on the mixture itself.

12.2 Persistence and degradability

Biodegradation

Preparation related information

Readily biodegradable (according to OECD criteria).

12.3 Bio-accumulative potential

Preparation related information

There are no data available on the mixture itself.

12.4 Mobility in soil

Preparation related information

If product enters soil, it will be mobile and may contaminate groundwater.

12.5 Results of PBT and vPvB assessment

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

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

12.6 Endocrine disrupting properties

Preparation related information

There are no data available on the mixture itself.

Information on ingredients

The substances in the mixture do not have endocrine disrupting properties with respect to humans.

12.7 Other adverse effect

13 Disposal considerations

13.1 Waste treatment methods.

Dispose of waste according to applicable local legislation.

Cylinder / valve assembly can be recycled via normal metal recycling routes; plastic parts should be disposed of in accordance with local regulations / directives.

14 Transport information

14.1	UN Number: -	UN1044
14.2	UN proper shipping name: -	Fire Extinguisher with compressed or liquefied gas
14.3	Transport Hazard Class(es) Class: -	2
14.4	Label(s): -	2.2
14.5	Hazard No. (ADR): -	-
14.6	Tunnel restriction code: -	(E) 3
14.7	Emergency Action Code: -	2T
14.8	Packing Group: -	-
14.9	Packing instruction: -	P003
14.10	Special packing instructions: -	PP91
14.11	Environmental hazards: -	Marine pollutant: No
14.12	Special provisions: -	225 / 594

15 Regulatory information

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

UK/EU legislation

Portable extinguisher Product specification EN3-7:2004 +A1:2007

CE 2797 (PED) / UKCA 0086 (PESR)

Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer
not applicable

Regulation (EU) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals
not applicable

Directive 96/59/EC (PCB-guideline)
not applicable

Regulation (EC) No. 648/2004 [Detergents regulation]
The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).
Volatile organic compounds (VOC) content in percent by weight: max. 0

Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases
not applicable

Regulation (EC) No 2019/1021 [POP/PFOS-Regulation]
The product is manufactured without the intended addition of organofluorine compounds for the purpose of increasing performance and therefore does not contain any amount of organofluorine substances beyond the regional ubiquitous background pollution (e.g. in the water used for production).

Regulation (EC) No 2020/784 [PFOA-Regulation]
The product is manufactured without the intended addition of organofluorine compounds for the purpose of increasing performance and therefore does not contain any amount of organofluorine substances beyond the regional ubiquitous background pollution (e.g. in the water used for production).

Regulation (EC) No 2021/1297 [C9-C14-PFCA-Regulation]
The product is manufactured without the intended addition of organofluorine compounds for the purpose of increasing performance and therefore does not contain any amount of organofluorine substances beyond the regional ubiquitous background pollution (e.g. in the water used for production).

15.2 **Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

16 Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge and may be subject to change without notification. The information is designed only as guidance for the safe handling, use, maintenance, storage, transportation, and disposal and is not to be considered a warranty or quality specification.

Full text of Hazard- and EU Hazard-statements

H280 – Contains gas under pressure; may explode if heated.