

**FIRECHIEF FLAMEBUSTER AEROSOL FIRE EXTINGUISHER**

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**SECTION 1. Identification of the substance/mixture and of the manufacturer****1.1. Product identifier**

Product code : AEROSOL DISPENSER FOR FIRE EXTINGUISHING PURPOSES

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

Fire extinguisher.

Sectors of use: Private households, Public domain (administration, education, entertainment, services)

Uses advised against: Do not use for purposes other than those listed

**1.3. Details of the supplier of the safety data sheet**

Fire Depot  
Sentura House, 3 Lands End Way  
Oakham, Rutland, LE15 6RB  
Tel. 0330 999 2233  
e-mail: sales@firedepot.co.uk  
Internet: www.firedepot.co.uk

**SECTION 2. Hazards identification****2.1. Classification of the substance or mixture**

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

None

Hazard Class and Category Code(s):

Aerosol

Hazard statement Code(s):

H229 - Pressurised container: May burst if heated.

The repeated inhalation of vapors can cause drowsiness and giddiness.

Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50 ° C.

If overheated the aerosol container may burst, contents can be propelled a large distance and will not be usable in the case of a fire.

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**2.2. Label elements**

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):  
 - Warning

Hazard statement Code(s):  
 H229 - Pressurised container: May burst if heated.

Supplemental Hazard statement Code(s):  
 N/A

Precautionary statements:

General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

P251 - Do not pierce or burn, even after use.

Storage

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Content of VOC ready to use condition: 0.66 %

**2.3. Other hazards**

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

**SECTION 3. Composition/information on ingredients**

**3.1 Substances**

Irrelevant

**3.2 Mixtures**

Refer to paragraph 16 for full information on hazard statements

Substance	Concentration	Classification	Identification
2-(2-BUTOXYETHOXY)ETHANOL	> 0,1 <= 1%	Eye Irritability: 2, H319	CE 603-096-00-8 CAS 112-34-5 EINECS 203-961-6 REACH 01-2119475104-44

**FIRECHIEF FLAMEBUSTER AEROSOL FIRE EXTINGUISHER****SECTION 4. First aid measures****4.1. Description of first aid measures****Inhalation:**

Air the area. Move patient immediately from the area to a well ventilated space. If patient feels unwell seek medical advice.

**Direct contact with skin (of the pure product):**

Wash thoroughly with soap and running water.

**Direct contact with eyes (of the pure product):**

Wash immediately and thoroughly with water for at least 10 minutes.

**Ingestion:**

If swallowed, seek immediate medical advice.

**4.2. Most common symptoms and effects, both acute and delayed**

N/A

**4.3. Indication of any immediate medical attention and special treatment needed**

If medical advice is needed, have product container or label at hand.

**SECTION 5. Firefighting measures****5.1. Extinguishing media**

N/A

**5.2. Specific hazards arising from the substance or mixture**

Manufactured under pressure in sealed metal container (test pressure 15 bar max). Cool containers with water spray if trying to remove them from fire. The aerosol containers can be overheated and burst violently.

**5.3. Advice for firefighters**

Use protection - breathing apparatus, safety helmet and full protective suit.

Could also use a self-respirator, especially when working in confined and poorly ventilated areas and if using halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

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**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****6.1.1 For non-emergency personnel:**

Leave the surrounding area bearing in mind that any overheating could project the cylinder a considerable distance. Wear gloves and protective clothing.

**6.1.2 For emergency responders:**

Given the pressure of the aerosol, it is unlikely that spillage may occur. However if a container is damaged and likely to leak, quarantine the extinguisher in question by bringing it to open air or covering it with inert material (eg sand, earth).

Wear gloves and protective clothing.

Evacuate the danger area and, in case, consult an expert.

**6.2. Environmental precautions**

Content spill.

Inform the relevant authorities.

Discharge the remains in compliance with local regulations.

**6.3. Methods and material for containment and cleaning up****6.3.1 For containment:**

Recover the product for reuse, if possible, or disposal.

**6.3.2 For cleaning up:**

After wiping up, wash with water the area and materials involved

**6.3.3 Other information:**

N/A

**6.4. Reference to other sections**

Refer to paragraphs 8 and 13 for more information

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Avoid contact and inhalation of vapors

Use extreme caution when handling the product. Avoid shock or friction.

Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50 ° C.

Do not pierce or burn, even after use. Do not spray on live electrical objects. Use in adequately ventilated areas.

See paragraph 8 below.

**7.2. Conditions for safe storage, including any issues**

Keep extinguishers upright and safe by avoiding the possibility of falls or collisions.

Pressurised container. Store in a ventilated place, in original packaging away from heat and sunlight.

Keep away from open flames, sparks and heat sources. Avoid direct sunlight exposure.

**FIRECHIEF FLAMEBUSTER AEROSOL FIRE EXTINGUISHER****7.3. Specific end use(s)**

Follow the rules of good hygiene in the workplace.

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters**

Related to contained substances:

2-(2-BUTOXYETHOXY)ETHANOL:

TLV-TWA: 10ppm; 67.5mg/m<sup>3</sup> (2006/15/EC).

TLV-STEL: 15ppm; 101.2mg/m<sup>3</sup> (2006/15/EC).

MAK: 100 mg/m<sup>3</sup> peak limitation category: I (1) Pregnancy risk group: C (DFG 2003).

- Substance: 2-(2-BUTOXYETHOXY)ETHANOL

DNEL

Systemic effects Long term Workers inhalation = 67.5 (mg/m<sup>3</sup>)

Systemic effects Long term Workers dermal = 20 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 34 (mg/m<sup>3</sup>)

Systemic effects Long term Consumers dermal = 10 (mg/kg bw/day)

Systemic effects Short term Consumers oral = 1.25 (mg/kg bw/day)

Local effects Long term Workers inhalation = 67.5

Local effects Long term Consumers inhalation = 34 (mg/m<sup>3</sup>)

Local effects Short term Consumers inhalation = 50.6 (mg/m<sup>3</sup>)

PNEC

Sweet water = 1 (mg/l)

sediment Sweet water = 4 (mg/kg/sediment)

Sea water = 0,1 (mg/l)

sediment Sea water = 0.4 (mg/kg/sediment)

intermittent emissions = 3.9 (mg/l)

STP = 200 (mg/l)

ground = 0.4 (mg/kg ground)

**8.2. Exposure controls**

Appropriate engineering controls:

Observe the safety measures used in handling chemicals.

Individual protection measures:

a) Eye / face protection

When handling the pure product use safety glasses (spectacles cage) (EN 166).

b) Skin protection

i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

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## ii) Other

When handling the pure product wear full protective skin clothing.

## c) Respiratory protection

Work in a sufficiently ventilated to avoid inhaling the product.

## d) Thermal hazards

N/A

Environmental exposure controls:

Use according to good working practices to avoid pollution into the environment.

**SECTION 9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

Physical and chemical properties	Value
Appearance	Spray
Odour	Not applicable
Odour threshold	Undefined
pH	Undefined
Melting point/freezing point	Undefined
Initial boiling point and boiling range	Undefined
Flash point	Undefined
Evaporation rate	Undefined
Flammability (solid, gas)	Undefined
Upper/lower flammability or explosive limits	Undefined
Vapour pressure	Undefined
Vapour density	Undefined
Relative density	Undefined
Solubility	Undefined
Water solubility	Undefined
Partition coefficient: n-octanol/water	Undefined
Auto-ignition temperature	Undefined
Decomposition temperature	Undefined
Viscosity	Undefined
Explosive properties	Undefined
Oxidising properties	Undefined
Container volume	1000cc
Product volume	600cc
Pressure to 20°C	11bar
Deformation pressure	Not determined
Burst pressure of the container	Not determined
Flash point of liquid phase	Irrelevant

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Physical and chemical properties	Value
Propellant inflammability	Irrelevant

**9.2. Other information**

Content of VOC ready to use condition: 0.66 %

**SECTION 10. Stability and reactivity****10.1. Reactivity**

No reactivity hazards.

**10.2. Chemical stability**

No hazardous reaction when handled and stored according to guidance.

**10.3. Possibility of hazardous reactions**

There are no hazardous reactions.

**10.4. Conditions to avoid**

The aerosol product is stable for a period exceeding 36 months and in normal storage conditions reactions can not take place as the container is entirely sealed.

To avoid the metal container deteriorating, keep away from acidic products. Pay attention to the heat as temperatures exceeding 50°C cause increased pressure inside the container that can deform the cylinder.

**10.5. Incompatible materials**

None in particular.

**10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

**SECTION 11. Toxicological information****11.1. Information on toxicological effects**

ATE(mix) oral = ∞

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(a) acute toxicity: 2-(2-BUTOXYETHOXY)ETHANOL: Acute hazards/symptoms;

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Skin: dry scalp.

Eye: Eye Redness. Pain.

(b) skin corrosion/irritation 2-(2-BUTOXYETHOXY)ETHANOL: Irritating.

(c) serious eye damage/irritation: n/a

(d) respiratory or skin sensitization: n/a

(e) germ cell mutagenicity: n/a

(f) carcinogenicity: n/a

(g) reproductive toxicity: n/a

(h) specific target organ toxicity (STOT) single exposure: 2-(2-BUTOXYETHOXY)ETHANOL: The substance 'irritating to eyes

(i) specific target organ toxicity (STOT) repeated exposure: n/a

(j) aspiration hazard: n/a

Related to contained substances:

2-(2-BUTOXYETHOXY)ETHANOL:

The product will contaminate air slowly at 20°C; however, when spraying or scattering, much more quickly.

LD50 (rat) Oral (mg/kg body weight) = 2410

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2764

**SECTION 12. Ecological information****12.1. Toxicity**

Related to contained substances:

2-(2-BUTOXYETHOXY)ETHANOL:

Toxic for fish:

LD50 (83d) = 1300mg/L

Toxic to invertebrates:

EC50 (48 h) = 100 mg/L (Daphnia magna)

Toxic for algae:

EC50 (192h) = 53mg/L

C(E)L50 (mg/l) = 100

Use according to good working practices to avoid pollution into the environment.

**12.2. Persistence and degradability**

Related to contained substances:

2-(2-BUTOXYETHOXY)ETHANOL:

Possibly hazardous short term degradation to product is not likely. However, long term degradation to product may arise.

**12.3. Bioaccumulative potential**

N/A



**FIRECHIEF FLAMEBUSTER AEROSOL FIRE EXTINGUISHER****12.4. Mobility in soil**

N/A

**12.5. Results of PBT and vPvB assessment**

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

**12.6. Other adverse effects**

No adverse effects

**SECTION 13. Disposal considerations****13.1. Waste treatment methods**

The waste must be disposed of in compliance with the regulations in force delivering empty containers for final disposal and equipped to safely handle pressurized containers containing flammable liquids and gas waste. The empty container heated to temperatures exceeding 70 ° C can burst.  
Recover if possible. Operate according to local or national regulations.

**SECTION 14. Transport information****14.1. UN number**

1950

**14.2. UN proper shipping name**

AEROSOL asphyxiant

**14.3. Transport hazard class(es)**

Class : 2  
Label : 2.2  
Tunnel restriction code : E  
Limited quantities : 1 L  
EmS : F-D, S-U

**14.4. Packing group**

N/A

**14.5. Environmental hazards**

Product is not environmentally hazardous  
Marine polluting agent : Not

**FIRECHIEF FLAMEBUSTER AEROSOL FIRE EXTINGUISHER****14.6. Special precautions for user**

The goods must be transported by vehicles authorized to transport dangerous goods according to the current edition of ADR requirements and applicable national regulations.

The goods must be in original packing, or in packaging made of materials resistant to their content and not likely to generate dangerous reactions. People loading and unloading dangerous goods must be trained on the risks from these substances and what must be done in case of emergency situations.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N/A

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Reg (EC) n. 1907/2006 (REACH), Reg (EC) n. 1272/2008 (CLP), Reg (EC) n. 453/2010 (Requirements for the compilation of safety data sheets), Reg (E) n.790/2009, Dir 96/82/EC as amended.

**15.2. Chemical safety assessment**

The supplier has made an assessment of chemical safety.

**SECTION 16. Other information****16.1. Other information**

Description of the hazard statements exposed to point 3  
H319 = Causes serious eye irritation.

Classification based on data of all mixture components

Regulatory information:  
Dir 67/548 29° Amendment  
Dir 1999/45/EC e s.a.a.  
Dir 2001/60/EC  
Reg 1907/2006 EC  
Reg 1272/2008 EC  
Reg 453/2010 EC

**NOTICE TO USERS**

The information contained in this sheet is based on the knowledge available at the date of the preparation of this sheet. The user must be aware of the possible risks associated with the use of the product, other than that for which the product is supplied. The sheet does not exonerate the user from knowing and applying all the regulations governing its activities. The set of regulations mentioned is simply to help the user to fulfill their obligations regarding the use of hazardous products.

This sheet does not exonerate the user from other legal obligations than those mentioned and from rules regulating

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possession and use of the product, since the user is the only responsible.

\*\*\* This sheet supersedes all previous editions.

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