

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Product Name : ECODARE F
Use : Fire Extinguishing Product
Supplier : Britannia Fire Limited
Ashwellthorpe Industrial Estate
Ashwellthorpe
NR16 1ER
United Kingdom
Telephone : +44 (0) 1508 488416
E mail : sales@britannia-fire.co.uk

2. HAZARDS IDENTIFICATION

Symptoms relating to use

Inhalation : None under normal conditions.
Skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.
Eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Ingestion : Must not come into contact with food or be consumed. Swallowing of this product presents some health hazard.

2.1 Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45
Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)
Not regulated.

2.2 Label elements

Labelling EC 67/548 or EC 1999/45
Contains : Ethanediol
Ethanol
Labelling Regulation EC 1272/2008 (CLP)
Precautionary statements

2.3 Other hazards

Other hazards : None under normal conditions.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1./3.2. Substance / Preparation

Substance / Preparation : Preparation.
Components : This product is not hazardous but contains hazardous components.

Substance name	Contents	CAS No	EC No	Annex No	Ref REACH	Classification
Ethenediol	: Between 1 and 5 %	107-21-1	203-473-3	603-027-00-1	----	Xn; R22 ----- Acute Tox. 4 (Oral);H302
Ethanol	: Between 0.1 and 1 %	64-17-5	200-578-6	603-002-00-5	----	F; R11 ----- Flam. Liq. 2;H225

4. FIRST AID MEASURES

4.1. Description of first aid measures

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

- Inhalation : Assure fresh air breathing.
- Skin contact : Flush with plenty of water.
- Eye contact : Rinse immediately with plenty of water.
- Ingestion : Call a physician immediately.

4.3 Indication of any immediate medical attention and special treatment needed

First aid measures

- Inhalation : Assure fresh air breathing.
- Skin contact : Rinse immediately with plenty of water.
- Eye contact : Rinse immediately with plenty of water.
- Ingestion : Rinse mouth.

If swallowed, seek medical advice immediately and show this container or label.

5. FIREFIGHTING MEASURES

5.1. Advice for firefighters

- Flammable class : Product used as extinguishing media.
- Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures : Exercise caution when fighting any chemical fire.
- Surrounding fires : Use water spray or fog for cooling exposed containers.

6. ACCIDENTAL RELEASE MEASURES

6.1. Reference to other sections

See Heading 8.

- Personal precautions : Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.
- Environmental precautions : Prevent entry to sewers and public waters.
Notify authorities if product enters sewers or public waters.
- Clean up methods : Collect spills and put it into appropriated container.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- Personal protection : Avoid all unnecessary exposure. Ensure prompt removal from eyes, skin and clothing.
- Handling : Keep away from food, drink and animal feeding stuffs. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
- Technical protective measures : Proper grounding procedures to avoid static electricity should be followed.

Both local exhaust and general room ventilation are usually required.

7.2 Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

7.3 Specific end use(s)

Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.2. Exposure controls

- Personal protection
- Respiratory protection : No special respiratory protection equipment is recommended under Normal conditions of use with adequate ventilation.
- Hand protection : In case of repeated or prolonged contact wear gloves.
- Skin protection : No special clothing/skin protection equipment is recommended under Normal conditions of use.
- Eye protection : Safety glasses.
- Ingestion : When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

9.1.a. Appearance

- Physical state at 20 °C : Liquid.
- Colour : Colourless to light yellow.

9.1.b. Odour

- Odour : Characteristic.

9.1.c. pH

- pH value : 7-9

9.1.d. Melting point / Freezing point

- Point de congelation : -30°C

9.1.e. Initial boiling point - boiling range

No reliable data available.

9.1.f. Flash point

No reliable data available.

9.1.g. Evaporation rate

No reliable data available.

9.1.h. Explosion limits (lower - upper)

No reliable data available.

9.1.i. Vapour pressure

No reliable data available.

9.1.j. Vapour density

No reliable data available.

9.1.k. Relative density

1,1-1,2 g/mL

Density : 1,05-1,20

9.1.l. Solubility

Completament soluble dans l'eau.

9.1.m. Viscosity

2,0-8,0 cP

Viscosity : 2-8

9.2. Other information

Refraction index (°) : 1,35-1,40

10. STABILITY AND REACTIVITY**10.1. Reactivity****10.2. Chemical stability**

Stability and reactivity : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Thermal stability : Stable under normal conditions.

Hazardous reactions : Strong oxidizing agents.

10.4. Conditions to avoid**10.5. Incompatible materials**

Materials to avoid : Strong oxidizers.

10.6. Hazardous decomposition products

Hazardous properties : None under normal conditions.

11. TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Toxicity information : No data available.

12. ECOLOGICAL INFORMATION**12.1. Toxicity**

Ecological effects information : Not dangerous to the environment

13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Dispose in a safe manner in accordance with local/national regulations.

General : Dispose in a safe manner in accordance with local/national regulations.

14. TRANSPORT INFORMATION

General information : Not classified as dangerous in the meaning of transport regulations.
Not regulated

When transported in a stored pressure or cartridge type fire extinguisher, the fire extinguisher is considered a class 2.2 hazard.

The proper shipping name shall be FIRE EXTINGUISHER and the number is UN 1044.

UN Number

UN 1044

UN proper shipping name

Fire extinguisher

Transport hazard class(es)

2.2

15. REGULATORY INFORMATION

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

Ensure all national/local regulations are observed.

Chemical safety assessment

No data available.

Symbol(s) : None

R Phrase(s) : None

S Phrase(s) : None

16. OTHER INFORMATION

List of relevant R phrases (§ 3) : R11 - Highly flammable.

R22 - Harmful if swallowed.

List of relevant H phrases (Section 3) : H225 - Highly flammable liquid and vapour

H302 - Harmful if swallowed

Revision : 0

Further information : None