



Abesco FP200 FR Foam

Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name Abesco FP200 FR Foam
Description Single component polyurethane foam with propellant
Intended use Fire protection of linear joints and around service penetrations
Supplier Abesco Fire Ltd
Address Laurencekirk Business Park
Laurencekirk, Scotland
AB30 1EY
Phone Number +44 (0)1561 377766
Fax Number +44 (0)1561 378887

2. COMPOSITION / INFORMATION ON THE COMPONENTS

| Substance | EINECS | CAS | Range (%) | Symbol |
|-------------------------------------|-----------|----------|-----------|----------------------|
| Dimethyl ether | 204-065-8 | 115-10-6 | 5 - < 20 | F+ 12 |
| 4,4'-Methylenediphenyl diisocyanate | 202-966-0 | 101-68-8 | 5 - < 25 | Xn 20-36/37/38-42/43 |
| 1,1,1,2-Tetrafluoro ethane | 212-377-0 | 811-97-2 | 5 - < 25 | |

3. HAZARD IDENTIFICATION

- i) Physico-chemical hazards: see section 10 and R-phrases
- ii) Human health dangers: see R-phrases
- iii) Environmental hazards: see R-phrases
- iv) Other hazards: none
- v) Hazard symbols



Extremely flammable



Harmful

- vi) R-phrases: R 12: Extremely flammable
R 36/37/38: Irritating to eyes, respiratory system and skin
R 40: Limited evidence of a carcinogenic effect
R 42/43: May cause sensitization by inhalation and skin contact
R 48/20: Harmful – danger of serious damage to health by prolonged exposure through inhalation
R 53: May cause long term adverse effects in the aquatic environment
R 64: May cause harm to breastfed babies

4. FIRST AID MEASURES

General Information Remove contaminated soaked clothing immediately and dispose of safely.

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| First Aid – Inhalation | Ensure supply of fresh air. In the event of symptoms refer for medical treatment. |
| First Aid – Skin Contact | In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. |
| First Aid – Eye Contact | In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice. |
| First Aid – Ingestion | N/A |
| Advice to Doctor | Treat symptomatically. |

5. FIRE FIGHTING MEASURES

Suitable extinguishing media
Carbon dioxide. Dry powder. Foam. Water spray jet.

Extinguishing media that must not be used
Full water jet.

Special exposure hazards arising from the substance or preparation itself or combustion products
Risk of formation of toxic pyrolysis products. Hydrogen cyanide (HCN). Nitrogen oxides (NOx). Hydrogen chloride (HCl).

Special protective equipment for fire-fighters
Use self-contained breathing apparatus. Do not inhale explosion and/or combustion gases.

Additional information
Cool containers at risk with water spray jet. Fire residues and contaminated fire fighting water must be disposed of in accordance with the local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation. Keep away sources of ignition.

Environmental precautions Contain/collect spillage with non-combustible absorbent material (e.g. sand). Place waste in labeled containers and dispose of in accordance with local regulations

Methods for cleaning up/taking up Take up mechanically. Dispose of absorbed material in accordance with the regulations.

7. HANDLING AND STORAGE

Advice on safe handling
Use only in well-ventilated areas.

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Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking.

Requirements for storage rooms and vessels

Additional informations (15).

Advice on storage compatibility

Do not store together with oxidizing agents.

Further information on storage conditions

Protect from heat/overheating. Keep in a cool place, heat causes increase in pressure and risk of bursting.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional advice on system design

Ingredients with occupational exposure limits to be monitored

| Substance | CAS | Value |
|-------------------------------------|----------|---------------------------------------|
| 1,1,1,2-Tetrafluoro ethane | 811-97-2 | MAK: 1000 ppm, Y 2000 |
| 4,4'-Methylenediphenyl diisocyanate | 101-68-8 | MAK: 0,05 mg/m ³ BAT, 2000 |
| Dimethyl ether | 115-10-6 | MAK: 1000 ppm 2000 |

Respiratory protection

Breathing apparatus in the event of high concentrations. Short term: filter apparatus, combination filter A-P2.

Hand protection

Protective gloves.

Eye protection

Safety glasses.

Skin protection

Light protective clothing.

General protective measures

Avoid contact with eyes and skin. Do not inhale vapours.

Hygiene measures

At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work. Clean skin thoroughly after work, apply skin cream. Use barrier skin cream.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------|----------------|
| Form | Aerosol. |
| Odour | Characteristic |
| pH | Not applicable |
| Flash Point (°C) | Not applicable |
| Combustible properties | No |
| Vapour pressure (hPa) | -(20 °C) |

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Auto-flammability (20 °C)
Solubility in water Reacts with water
Viscosity Not applicable

10. STABILITY AND REACTIVITY

Hazardous reactions Because of the high vapour pressure, containers are liable to burst if temperature rises.
Hazardous decomposition products No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity LD50
Acute dermal toxicity LD50
Acute inhalational toxicity LC50
General remarks No toxicological data are available. The product was classified on the basis of the calculation procedure of the preparation directive (88/379/EEC).

12. ECOLOGICAL INFORMATION

Biodegradable Not applicable.
Behaviour in sewage plant Not applicable.
AOX-advice The product contains organically bound halogen in accordance with the formulation.
General information Ecological data are not available.
Contains compounds of 76/464/EC Yes

13. DISPOSAL

Product / Container Disposal Dispose of as hazardous waste.
Waste no. 160504*
Disposal / Contaminated packaging Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.

14. TRANSPORT INFORMATION

14.1 Classification according to ADR:

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ADR 2 5F (2 F)
Dangerous Goods 1950 Aerosols 2 5F ADR
Declaration: (1950 Aerosols 2 F ADR)
Inscriptions: UN 1950 Aerosole
Factor(ADR 10 011): 3,33
Label:



ADR-Conditions for limited quantities (LQ):

Dangerous Goods "---"
Declaration:
Inscriptions: UN 1950
Label: "---"
Inner packing, max.: 1 l
Total gross mass of a package: 30 kg

14.2 Classification according to IMDG:

IMDG-Code: Class: 2, Packing Group: -
Dangerous Goods Aerosols, Class: 2, UN 1950, -
Declaration:
Inscriptions: Aerosols UN 1950
Label:



IMDG-Conditions for limited quantities (LQ):

Dangerous Goods Aerosols, Class: 2, UN 1950, -,
Declaration: LIMITED QUANTITIES
Inscriptions: Aerosols UN 1950
Label: "---"
Inner packing, max.: 1 l
Total gross mass of a package: 30 kg

14.3 Classification according to IATA:

IATA-DGR: Class: 2.1 , Packing Group:
Dangerous Goods Aerosols, flammable, Class: 2.1 , UN 1950,
Declaration:
Inscriptions: Aerosols, flammable UN 1950
Label:



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15. REGULATORY INFORMATION

Labelling

The product is classified and labelled in accordance with EC directives

Hazard symbols



Extremely flammable



Harmful

Contains

4,4'-Methylenediphenyl diisocyanate

R12: Extremely flammable. R36/37/38: Irritating to eyes, respiratory system and skin. R42/43: May cause sensitisation by inhalation and skin contact.

S23.3: Do not breathe vapour. S36/37: Wear suitable protective clothing and gloves. S51: Use only in well-ventilated areas. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S56: Dispose of this material and its container to hazardous or special waste collection point.

Special labelling for certain preparations

Container is under pressure. Protect from sun and temperatures above 50 °C. Do not open with force or incinerate even after use. Do not spray against an open flame or glowing hot objects. Keep away from sources of ignition - No smoking. Keep out of reach of children. Observe manufacturer's instructions.

16. OTHER INFORMATION

02. Composition / Information on ingredients, (R phrases):

R12: Extremely flammable.

R20: Harmful by inhalation.

R36/37/38: Irritating to eyes, respiratory system and skin.

R42/43: May cause sensitisation by inhalation and skin contact.

Regulatory information

*91/155/EWG (2001/58/EG)

*67/548/EWG (2001/59/EG)

*88/379/EWG (2001/60/EG)

*91/689/EWG (2001/118/EG)

*89/542/EWG

*ADR (23.07.01)

*ADR (23.07.01)

*IMDG-Code (30.Amdt.)

*IATA-DGR (2001)

Modified position:

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