

AQUEOUS FILM FORMING FOAM (AFFF)

Product Code: FR20

MATERIAL SAFETY DATA SHEET

PRODUCT: Fire Fighting Foam Concentrate

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

- 1.1 IDENTIFICATION OF THE PREPARATION: **AFFF 0.5%**
- 1.2 COMPANY IDENTIFICATION
- Fire Depot
Sentura House
3 Lands End Way
OAKHAM
Rutland
LE15 6RB
- 1.4 EMERGENCY TELEPHONE: 01752 770478

2. COMPOSITION/INFORMATION ON INGREDIENTS

- 2.1 Characteristics Aqueous solution of surfactants
- 2.2 Hazardous Components
- | | |
|---|----------|
| ButylDiGlycol Ether (ButylCarbitol) | (25-30%) |
| Xi: R36/CAS No 112-34-5/EINECS No 203-951-6 | |
| AlkylSulphate | (20-25%) |
| Xi: R36/38 | |
| Flourosurfactant | (5-10%) |
| F; R10 | |
| Ethanol | (10-15%) |
| F; R11/CAS No 64-17-5/EINECS No: 200-578-6 | |

3. HAZARDS IDENTIFICATION

- 3.1 Health Hazards Irritating to eyes– Tingling feeling
- 3.2 Physical and Chemical Hazards Not flammable
- 3.4 Specific Risks This product is classified as Xi; Irritant under European Directive 1999/45/EC



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4. FIRST AID MEASURES

- 4.1 Skin Contact** Wash off with water. Remove contaminated soaked clothing and rinse with water
- 4.2 Eye Contact** Flush eye with plenty of water for at least 10 minutes
- 4.3 Swallowing** Wash mouth with water. Seek medical advice should pain occur and persist
- 4.4 Inhalation** If there are any signs on nausea or sickness, seek medical advice

5. FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media** Not flammable, Fire Fighting foam concentrate.
- 5.2 Protective equipment for fire fighters** Standard equipment against fires
- 5.3 Portable fire Extinguishers** Basic extinguisher operational and risk identification. Training is minimum requirement

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions** Wear impervious clothes, gloves and goggles
- 6.2 Environmental protection** Absorb on to sand or other absorbent material and shovel into container for disposal
- 6.3 Cleaning Measures**
- Collecting Pump into clearly identified unbreakable containers
 - Cleaning Wash thoroughly with water
 - Disposal Incineration according to local regulations

7. HANDLING AND STORAGE

- 7.1 Handling** does not require specific technical equipment
- 7.2 Storage**
- Technical measures Storage area should contain accidental spill
 - Storage conditions Sealed containers in normal cool warehouse
 - Storage recommendations Product in bulk: stainless steel, polyester or mild steel protected with epoxy or polyurethane coating. Tanks in PE, PP
- 7.3 Packaging materials**
- Recommended Polyethylene, polypropylene, stainless steel
 - Not advised Mild Steel, iron, aluminium, copper and its alloys
 - Recommended sealing Viton, Kevlar, Teflon

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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8.1 Personal Protective Equipment

- Hand protection Impermeable gloves (PVC) if continual handling
- Eye protection Goggles, emergency eyewasher should be available
- Body protection Working clothes

8.2 Hygienic Measures

- DO NOT eat, drink or smoke while handling the product
- Clean hands after working with any chemical product

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical form Liquid
- Colour/Odour Light Brown/Synthetic smell
- pH at 20°C 8.0 +/- 1.0
- Freezing Point -32°C
- Boiling Point +100°C
- Flammability/oxidising/ explosive properties None
- Specific gravity at 20°C 1020 +/- 20 kg/m³
- Solubility Completely soluble in water

10. STABILITY AND REACTIVITY

- 10.1 Thermal decomposition Stable under normal conditions of use and storage
- 10.2 Hazardous reactions None expected in standard use

11. TOXICOLOGICAL INFORMATION

- 11.1 Acute toxicity None to be expected
- 11.2 Local effects on the eye and skin Irritating to eyes and skin (pure)
Not irritant to eyes and skin at normal concentration of use

12. ECOLOGICAL INFORMATION

- 12.1 Environmental Behaviour



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- Biodegradation data COD = 7150mg O²/l
 BOD₅ = 6650mg O²/l
 BOD₁₀ = 6800mg O²/l
- Biodegradation rate = 95% after 10 days : GENEX ESC is readily biodegradable
- Bio accumulative environment foaming agent if discharged in water
 PerFlourinated Organic compounds persist in
 PFCs are suspected to bio accumulate in living beings

beings

12.2 Ecotoxicity

- Aquatic life toxicity Not expected to be toxic after dilution

13. DISPOSAL CONSIDERATIONS

13.1 Product

- Prohibition Do not discharge in the environment
- Disposal Small amounts of product do not interfere with water treatment facilities. If released in sewage system accidentally it is recommended to restrict where possible and if not to control a slow flow rate in order to avoid any excess foaming. Big quantities must be treated as chemical waste according to local regulations and any volume of material would be deemed a trade waste under local regulations

13.2 Packaging

- Prohibition Do not discharge in the environment
- Cleaning Rinse with plenty of water
- Disposal Incineration or an agreed method of package recycling

14. TRANSPORT INFORMATION

14.1 International Regulations

- Road – RID/ADR Non hazardous
- Sea –OMI/MDG Non hazardous
- Air – ICAO/IATA Non hazardous

15. REGULATORY INFORMATION

15.1 Labelling

- CE regulations Classified
- Hazard symbol Xi
- R Phrases R36/38: Irritating to eyes and skin
- S Phrases S20/21: When using do not eat, drink or smoke
 S24: Avoid Contact with skin
 S26: In case of contact with eyes rinse immediately with plenty of water and seek medical advice
 S28: After contact with skin wash immediately with plenty of water

16. OTHER INFORMATION



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Rules of drafting

This safety sheet complies with European directive
1907/2006EC Article 31

R Phrases as mentioned in section 3

R10: Flammable

R11: Highly flammable

R36: Irritating to eyes

R36/38: Irritating to eyes and skin



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