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MATERIAL SAFETY DATA SHEET - AFF FOAM

1. Identification of product/substance and company

Product Identifier	AFFF (Aqueous Film Forming Foam) 6%
Trade Name	
Chemical Description	
Chemical Formula	
Registration No.	
Use	Fire extinguishing agent

2. Hazards Identification

Physical Health Hazards	Not considered hazardous

3. Composition & Information on Ingredients

Reach No.	CAS No.	Ingredients	%	Risk Phrases
203-473-3	107-21-1	Monoethyleneglycol, Ethane-1, 2-diol	5-8	Harmful if swallowed
203-961-6	112-34-5	Butyldiglycol, 2-(2-butoxyethoxy) ethanol	8-11	Irritating to eyes
		Fluroalkyl Surfactant	<5	Harmful if swallowed
		Synthetic Detergent	<5	Irritating to eyes and skin

4. First Aid Measures

Contact with Skin	Wash the skin with plenty of water. Seek medical attention if irritation develops. All contaminated clothing to be removed and laundered before reuse.
Contact with Eyes	Flush eyes thoroughly with water for a minimum of 15 minutes. Ensure the eyelids are kept open. Always seek medical attention.
Inhalation	Immediately remove patient to fresh air and allow to rest. Seek medical attention if symptoms are evident.

5. Fire Fighting Measures

The product is a fire extinguishing agent. No special protective equipment required for fire fighters.

6. Accidental Release Measures

Environmental Precautions	Prevent large amounts from entering waterways or sewers. Inform the local Environment Office, Police & Fire Brigade in the event of a large spill.
Personal Precautions	Wear suitable waterproof clothing including gloves and goggles. Footwear should be slip resistant as there is a high slip risk.

6. Accidental Release Measures (cont'd)

Clean Up Methods	Consult local regulations. Use inert materials such as earth, sand or spill control granules and dispose of in conjunction with the local Controlled Waste Regulations.

7. Handling & Storage

Handling	This product is not classified as hazardous but repeated and prolonged contact is not advised and should be avoided. Maintain good personal hygiene at all times and wash hands thoroughly after handling this product. Do not breathe mists or vapours and avoid any contact with eyes. Do not ingest.
Storage	Protect from frost and store away from direct sunlight. Store between 1°- 48°C.

8. Personal Protection & Exposure Controls

Engineering Controls	Provide eyewash facilities and adequate ventilation.	
Control Parameters	Contains Monoethyleneglycol	
	10mg/m³ 8hr TWA particulates	OES
	60mg/m³ 8hr TWA vapours	OES
	125mg/m³ 15min STEL vapours	OES
Monitoring Procedures	None required	
PPE Requirements	Hand Protection:	Rubber or plastic impervious gloves
	Eye Protection:	Safety goggles or visor
	Skin Protection:	Wear suitable overall or coat
	Respiratory Protection:	Only required in cases without sufficient ventilation. Use breathing mask fitted with an organic vapour filter type A1.

9. Physical & Chemical Properties

Appearance	Clear amber liquid
Odour	Mild
Boiling Point	100°C
Flash Point	Non-flammable
Autoignition	Non-flammable
pH	7.5 - 8.0
Explosive Properties	None
Solubility in Water	Miscible
Density at 20°C (kg/m³)	1050 ±10

Typical values only

10. Stability & Reactivity

Stability	Stable
Conditions to avoid	Avoid temperatures <0 and >48°C

Hazardous decomposition products	Use at the recommended concentration level does not present any danger. Concentrated product would emit oxides of carbon and traces of hydrogen fluoride if involved in a fire.
Materials to avoid	Not applicable

11. Toxicological Information

Test Data	Oral LD50 rat (mg/kg) >5000mg/kg Not irritant to skin
Exposure Hazards:	
Skin Contact	Temporary irritation only with repeated or prolonged contact
Ingestion	May produce mild stomach upset but this is an unlikely route of exposure.
Eye Contact	Temporary and mild redness or irritation
Inhalation	Can cause a temporary and mild irritation to the respiratory tract

12. Ecological Information

Aquatic Toxicity	No data available
Biodegradability	91.6%
Sludge Respiration	Concentrations of 1000mg/l do not provide a critical inhibition effect
Environmental Effect	COD ($mg0_2$/l): 29000 BOD ($mg0_2$/l): 25000

13. Disposal Considerations

Disposal of Product	Incineration may be possible but the product will need to be mixed with a combustible material and the combustion products will include hydrogen fluoride. All disposal to be in accordance with the current Controlled Waste Regulations
Disposal of Packaging	In line with current Controlled Waste Regulations

14. Transport Information

Substance ID No.	None
Correct Shipping Name	Not applicable
Land Transport	Not classified
Marine Transport	Not classified
Air Transport	Not classified

15. Regulatory Information

Symbols	None
R-Phrases	None
S-Phrases	None
EINECS	Number Ingredients listed in EINECs or ELINCS unless exempt under EU Directive 67/548/EEC

16. Other Information

No further information. Revisions / corrections to follow in accordance with regulation changes.