



FREEFOR 15



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME Recommended use	FREEFOR 15 Fire Fighting Foam
MANUFACTURER Address	3FFF LIMITED Unit B, 18 Brunel Road, Earlstree Industrial Estate, Corby, Northants, NN17 4JW, UNITED KINGDOM
Phone n°	+44(0)1536 202919 or EMERGENCY N°+44 (0)7801 850011
Fax n°	+44(0)1536 263641
E-mail	sales@3fff.co.uk

2. HAZARDS IDENTIFICATION

CLASSIFICATION / REGULATION Physical Hazards Health Hazards Environment Hazards	EC 1272/2008 (CLP/GHS) / Eye damage 1 - H318 Skin Irritation 2 – H315 / GHS05 DANGER H318 Causes serious eye damage H315 Causes skin irritation	
LABEL ELEMENTS Symbols Danger Precaution	P264 Wash your hands thoroughly after handling P280: Wear safety clothes, gloves and goggles P305+P351+P338 IF ON EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing P302+P352 IF ON SKIN: Wash with plenty of soap and water P310 Immediately call a POISON CENTER or doctor P332+P313 If skin irritation occurs, get medical attention	

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Characteristics Hazardous components	Mixture: Aqueous solution of surfactants AlkylSulfate.....[5 – 10%] CAS # 85338-42-7 / REACH # 01-2119972287-26 Skin Irritant 2; Eye Damage 1 H315. H318 P280. P302+P352. P305+P351+P338. P310. P332+P313 ButylDiGlycol Ether (ButylCarbitol).....[20 – 30%] CAS # 112-34-5 / REACH # 01-2119475104-44 Eye Damage 2 H319 P305+P351+P338 AlkeneSulfonate.....[15 – 20%] CAS # 68439-57-6 / REACH 01-2119488639-16 Skin Irritant 2; Eye Damage 2 H315. H319 P305+PP351+P338. P302+P352. P332+P337+P313 Fatty alcohol C12_C14.....[1 –5%] CAS # 80206-82-2 / REACH N.R. Eye Damage 2; Aquatic Acute 1; Aquatic Chronic 1 H319. H400. H410 P264. P273. P280. P305+P351+P338. P337+P313. P391
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4. FIRST AID MEASURES

Skin contact	Wash off with water. Remove contaminated soaked clothing and rinse with water	
Eye contact	Flush eye with plenty of water for at least 10 minutes maintaining open eyelids	
Swallowing	Wash mouth with water. Seek medical advice	
Inhalation	If there are any signs of nausea or sickness, seek medical advice	

5. FIRE FIGHTING MEASURES

Extinguishing media	Firefighting foam concentrate: not flammable
Specific risks	Aqueous solution: does not present specific risk in the case of fire

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear impervious clothes, gloves, goggles and safety shoes	
Environmental protection	Absorb onto sand or other absorbent material and shovel into container for disposal	
CLEANING MEASURES	Pump into clearly identified unbreakable containers	
<ul style="list-style-type: none"> Collecting Cleaning Disposal 	Wash thoroughly with water	
	Incineration according to local regulations	

7. HANDLING AND STORAGE

HANDLING	Require protective equipment (see section 8)
STORAGE	Storage area should contain accidental spill
<ul style="list-style-type: none"> Technical measures Storage conditions Storage recommendations 	Sealed containers in normal cool warehouse
PACKAGING MATERIALS	Product in bulk: stainless steel, polyester or mild steel protected with epoxy or polyurethane coating. Tanks in PE, PP
<ul style="list-style-type: none"> Recommended Not advised Recommended sealing 	Polyethylene, Polypropylene, stainless steel
	Mild steel, iron
	Viton, Kevlar, Teflon

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT	Impermeable gloves (PVC) if continual handling	
<ul style="list-style-type: none"> Hand protection Eye protection Body protection 	Goggles	
HYGIENIC MEASURES	Working clothes, safety shoes	
	Eye washing solution and washer eye cup	
	DO NOT eat, drink or smoke while handling the product	
	Clean hands after working with any chemical products	



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9. PHYSICAL AND CHEMICAL PROPERTIES

<ul style="list-style-type: none"> Physical form Colour / Odour pH at 20°C Freezing point Boiling point Flammability / oxidising / explosive properties Specific gravity at 20°C Solubility 	Liquid Yellow / Synthetic smell 7.0 +/- 1.0 -14°C +100°C None 1030 +/- 20 Kg/m ³ Completely soluble in water
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10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL DATA

Acute toxicity	Not classified as toxic if swallowed
Local effects on the eye and skin	Eye Damage 1 May cause serious eye damage (pure) Skin Irritation 2 Causes skin irritation (pure) Not irritating to eyes and skin at recommended concentration of use of 0.5%

12. ECOLOGICAL DATA

ENVIRONMENTAL BEHAVIOUR <ul style="list-style-type: none"> Biodegradation data Biodegradation rate Persistency Bio accumulative PBT and vPvB assessment 	COD = 1090 g O ₂ / l BOD ₅ = 536 g O ₂ / l 49% after 5 days; FREEFOR 15 is readily biodegradable FREEFOR 15 is free of persistent components FREEFOR 15 is free of bio accumulative components Not classified PBT or vPvB
ECOTOXICITY <ul style="list-style-type: none"> Toxicity data Aquatic life toxicity 	Not available Not expected to be toxic after dilution

13. DISPOSAL CONDITIONS

PRODUCT <ul style="list-style-type: none"> Prohibition Disposal 	Do not discharge in the environment Small amounts of product do not interfere with water treatment facilities If released in sewage system accidentally, it is recommended to control a slow flow rate in order to avoid any excess foaming
PACKAGING <ul style="list-style-type: none"> Prohibition Cleaning Disposal 	Do not discharge in the environment Rinse with plenty of water Incineration or an agreed method for package recycling



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14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS	
<ul style="list-style-type: none"> • Road - RID/ADR • Sea - OMI/MDG • Air - ICAO/IATA 	<p>Non hazardous</p> <p>Non hazardous</p> <p>Non hazardous</p>

15. REGULATORY INFORMATION

Safety, human health and environmental regulations related to the product	<p>Regulation EC 440/2008 on chemicals</p> <p>Directive 2008/98/EC on waste management</p> <p>Government Regulation 361/2007 for health protection at work</p> <p>Regulation EC 1907/2006 on REACH registration</p> <p>Regulation EC 1272/2008 on classification and labelling of chemicals</p>
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16. OTHER INFORMATION

<p>Rules of drafting</p> <p>Relevant Symbols</p> <p>Relevant H Statements</p> <p>Relevant P statements</p>	<p>This Safety Data Sheet complies with European Regulation EC 1272/2008 (CLP/GHS)</p> <p>GHS05 DANGER</p> <p>H315. H318</p> <p>P264. P280. P302+P352. P305+P351+P338. P310. P332+P313</p>
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