

FOAM SAMPLES: SYNTHETIC (AFFF, AFFF-LF, AFFF-AR)

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Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: FOAM SAMPLES: SYNTHETIC (AFFF, AFFF-LF, AFFF-AR)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Mixture of Synthetic Fire Fighting Foam Concentrates and diluted/produced samples for laboratory testing and evaluation. The information included on this document is only intended to cover a broad range of potential physical characteristics and properties for the many kinds of foam concentrates in circulation on the market.

1.3. Details of the supplier of the safety data sheet

Company name: Oil Techics Ltd

Lintons Business Park Gourdon Aberdeenshire DD10 0NH United Kingdom, Scotland

Tel: +44 (0) 1561 361515

Email: info@oiltechnics.com

1.4. Emergency telephone number

Emergency tel: +44 (0) 1561 361515

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: Xi: R36

Classification under CLP: Eye Dam. 1: H318

Most important adverse effects: Irritating to eyes.

2.2. Label elements

Label elements under CLP:

Hazard statements: H318: Causes serious eye damage.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.

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P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor.

Label elements under CHIP:

Hazard symbols: Irritant.



Risk phrases: R36: Irritating to eyes.

2.3. Other hazards

Other hazards: Irritating to skin.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

ETHYLENE GLYCOL - REACH registered number(s): 01-2119456816-28-XXXX

EINECS	CAS	CHIP Classification	CLP Classification	Percent
203-473-3	107-21-1	Xn: R22	Acute Tox. 4: H302	10-20%
2-METHYLPENT	TANE-2,4-DIOL			
203-489-0	107-41-5	Xi: R36/38	Eye Irrit. 2: H319; Skin Irrit. 2: H315	1-5%
2-(2-BUTOXYET	HOXY)ETHANOI	- REACH registered number(s): 01-21	19475104-44	
203-961-6	112-34-5	Xi: R36	Eye Irrit. 2: H319	1-5%
ALKYLPOLYGL	YCOSIDE C9-11		·	
603-654-0	132778-08- 06	Xi: R41	Eye Dam. 1: H318	1-5%
SODIUM DECYL	SULPHATE			
-	-	Xn: R22; Xi: R38; Xi: R41	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Skin Irrit. 2: H315; Eye Dam. 1: H318	1-5%
SODIUM OCTYL	SULPHATE			
205-535-5	142-31-4	Xi: R38; Xi: R41	Skin Irrit. 2: H315; Eye Dam. 1: H318	1-5%

Non-classified ingredients:

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WATER

WATER				
EINECS	CAS	CHIP Classification	CLP Classification	Percent
-	7732-18-5	-	-	60-80%
	Contains:	Contains fluorinated carbon molecules a	es the primary (fluoro) surfactant	
	Contains.		as to whether the foam samples pertinent	to this
			duct Stewardship programme, relating to val of PFOA and PFOS from the market.	line
			val of PFOA and PFOS from the market.	
ection 4: First aid	measures			
4.1. Description of	first aid mea	sures		
S	kin contact:	Remove all contaminated clothes and fo	otwear immediately unless stuck to skin.	Wash
		immediately with plenty of soap and wat	-	
F	ve contact:		minutes. Transfer to hospital for specialisi	ł
-	Lyc contact.	examination.		
	Indestion.		ce vomiting. If conscious, give half a litre	ofwater
	ingestion.	to drink immediately. Consult a doctor.		of water
	Inhalation	Remove casualty from exposure ensurir	a ono's own cafoty whilet doing co	
		· ·	ig one's own safety whilst doing so.	
4.2. Most importan	it symptoms	and effects, both acute and delayed		
S	kin contact:	There may be irritation and redness at the	ne site of contact.	
E	ye contact:	There may be pain and redness. The ey	es may water profusely. There may be se	vere
		pain. The vision may become blurred. N	ay cause permanent damage.	
	Ingestion:	There may be soreness and redness of	the mouth and throat. Nausea and stoma	ch
		pain may occur.		
	Inhalation:	There may be irritation of the throat with	a feeling of tightness in the chest.	
Delayed / immed	iate effects:	Immediate effects can be expected after	r short-term exposure.	
4.3. Indication of a	ny immediate	e medical attention and special treatm	ent needed	
Immediate / specia	I treatment:	Eye bathing equipment should be availa	ble on the premises.	
ection 5: Fire-fight	ting measu	es		
5.1. Extinguishing	media			
Extinguio	hing modio	Quitable outinguishing modio for the our	rounding fire about the used. Lies water a	
Exunguisi	ining metha:		rounding fire should be used. Use water s	piay
		to cool containers.		
5.2. Special hazard	is arising fro	m the substance or mixture		
Exposu	ire hazards:	In combustion emits toxic fumes.		
5.3. Advice for fire-	-fighters			

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact

with skin and eyes.

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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised

personnel. Do not attempt to take action without suitable protective clothing - see section

8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

ETHYLENE GLYCOL

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	52 mg/m3 (vapour)	104 mg/m3 (vapour)	-	-

2-METHYLPENTANE-2,4-DIOL

UK 123 mg/m3 123 mg/m3 -	-	
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2-(2-BUTOXYETHOXY)ETHA	NOL				
UK 6	7.5 mg/m3	101.2 mg/m3		-	-
DNEL/PNEC Values					
DNEL / PNEC	No data av	ailable.			
8.2. Exposure controls					
Engineering measures: Ensure there is sufficient ventilation of the area.					
Respiratory protection:	Self-contai	ned breathing apparatus mu	st be available in case of	of emergency.	
Hand protection:					
Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.					
Skin protection: Protective clothing.					
ection 9: Physical and chemi		-			
9.1. Information on basic physic	cal and che	emical properties			
State:	Liquid				
Colour:	Yellow-bro	wn			
Odour:	Perceptible	e odour			
Evaporation rate:	Moderate				
Oxidising:	Non-oxidis	ing (by EC criteria)			
Solubility in water:	Soluble				
Viscosity:	Viscous				
Boiling point/range °C:	>100		Flash	n point℃: >93	
Relative density:	1.0-1.3			pH: 6-8.5	
9.2. Other information					
Other information:	Potential fo	or mixture of different foam c	oncentrate types resulti	ng in varying physical	
	properties.				

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

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10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

ETHYLENE GLYCOL

IVN	RAT	LD50	3260	mg/kg
ORL	MUS	LD50	5500	mg/kg
ORL	RAT	LD50	4700	mg/kg

2-METHYLPENTANE-2,4-DIOL

IPR	RAT	LDLO	1500	mg/kg
ORL	MUS	LD50	3097	mg/kg
ORL	RAT	LD50	3700	mg/kg

2-(2-BUTOXYETHOXY)ETHANOL

ORL	MUS	LD50	6050	mg/kg
ORL	RAT	LD50	4500	mg/kg

ALKYLPOLYGLYCOSIDE C9-11

ORAL HM	MN LD50	>2000	mg/kg
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Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be pain and redness. The eyes may water profusely. There may be severe
	pain. The vision may become blurred. May cause permanent damage.
Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach
	pain may occur.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.

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Section 12: Ecological information	ition					
12.1. Toxicity						
Hazardous ingredients:						
ALKYLPOLYGLYCOSIDE C9	-11		1			
FISH		96H LC50	10	mg/l		
12.2. Persistence and degrada	bility					
Persistence and degradability:	Biodegradable.					
12.3. Bioaccumulative potentia	I					
Bioaccumulative potential:	No bioaccumulation potenti	al.				
12.4. Mobility in soil						
Mobility:	Readily absorbed into soil.					
12.5. Results of PBT and vPvB assessment						
PBT identification:	ntification: This product is not identified as a PBT/vPvB substance.					
12.6. Other adverse effects						
Other adverse effects:	Negligible ecotoxicity.					
Section 13: Disposal consideration	ations					
13.1. Waste treatment methods	3					
Disposal operations:	Transfer to a suitable conta	iner and arrange for co	llection by specialised	l disposal		
	company.	5	5 1	·		
NB:	The user's attention is draw	n to the possible existe	ence of regional or nat	ional		
	regulations regarding dispo	sal.				
Section 14: Transport information	tion					
Transport class:	This product does not requi	re a classification for tr	ansport.			
Section 15: Regulatory information	ation					
15.1. Safety, health and environ	nmental regulations/legisla	tion specific for the s	ubstance or mixture			
Specific regulations:	Not applicable.					
15.2. Chemical Safety Assessn	nent					
Section 16: Other information						
Other information						
Other information:	This safety data sheet is pre	epared in accordance v	vith Commission Regu	ulation (EU) No		

453/2010.

* indicates text in the SDS which has changed since the last revision.

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Phrases used in s.2 and s.3:	H302: Harmful if swallowed
	H315: Causes skin irritation.
	H318: Causes serious eye damage.
	H319: Causes serious eye irritation.
	H412: Harmful to aquatic life with long lasting effects.
	R22: Harmful if swallowed.
	R36/38: Irritating to eyes and skin.
	R36: Irritating to eyes.
	R38: Irritating to skin.
	R41: Risk of serious damage to eyes.
Legend to abbreviations:	PNEC = predicted no effect level
Legend to appreviations.	DNEL = derived no effect level
	LD50 = median lethal dose
	LC50 = median lethal concentration
	EC50 = median effective concentration
	IC50 = median inhibitory concentration
	dw = dry weight
	bw = body weight
	cc = closed cup
	oc = open cup
	MUS = mouse
	GPG = guinea pig
	BBT = rabbit
	HAM = hamster
	HMN = human
	MAM = mammal
	PGN = pigeon
	IVN = intravenous
	SCU = subcutaneous
	SKN = skin
	DRM = dermal
	OCC = ocular/corneal
	PCP = phycico-chemical properties
Legal disclaimer:	The above information is believed to be correct but does not purport to be all inclusive
	and shall be used only as a guide. This company shall not be held liable for any
	damage resulting from handling or from contact with the above product. Oil Technics Ltd
	takes no responsibility for the samples sent along with this SDS in shipment. This SDS
	is intended for use only as a substitute to the SDS supplied by the foam concentrate
	manufacturer. If an SDS is available from the manufacturer of the foam, it should be
	used in place of this SDS.

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