

# SAFETY DATA SHEET

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

**Product identifier** 

Trade name or designation

of the mixture

Tridol ATF C 3/6

Registration number

Synonyms None.

Product code 140-15

Date of first issue 15-February-2011

Version number 02

Revision date 03-December-2014
Supersedes date 15-February-2011

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

**Identified uses** Fire fighting foam concentrate.

Uses advised against None known.

Details of the supplier of the safety data sheet

**Supplier** 

Company nameAngus Fire LtdAddressStation Road

Bentham, Lancashire, LA2 7NA

**Phone number:** 0044 (0)15 2426 4000

e-mail general.enquiries@amgusuk.co.uk

Contact person EH&S Manager

Emergency telephone 0044 (0)15

number

0044 (0)15 2426 4000 (Standard office hours: Monday to Friday 8:30am - 4:30pm GMT)

SDS number -

Manufacturer/Supplier Angus Fire Ltd Station Road

Bentham, Lancashire, LA2 7NA

0044 (0)15 2426 4000

general.enquiries@angusuk.co.uk

general.enquirles@angusuk.co.uk Contact person: EH&S Manager

Emergency 0044 (0)15 2426 4000 (Standard office hours: Monday to Friday 8:30am - 4:30pm GMT)

### Section 2: Hazards identification

#### Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

### Classification according to Regulation (EC) No 1272/2008 as amended

**Health hazards** 

Serious eye damage/eye irritation Category 2 Causes serious eye irritation.

**Hazard summary** 

**Physical hazards** Not classified for physical hazards.

Health hazards Not classified for health hazards. However, occupational exposure to the mixture or substance(s)

may cause adverse health effects.

**Environmental hazards** Not classified for hazards to the environment.

**Specific hazards** May cause skin and eye irritation. May cause respiratory tract irritation. May cause central

nervous system effects.

Main symptoms Symptoms can include irritation, redness, scratching of the cornea, and tearing. Symptoms may

include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure

may be headache, dizziness, tiredness, nausea and vomiting.

Tridol ATF C 3/6 SDS EU

#### Label elements

### Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 2-(2-Butoxyethoxy)-Ethanol, Alkyl polyglycoside, Sodium Decyl Sulphate



Signal word Warning

Hazard statements Causes serious eye irritation.

**Precautionary statements** 

**Prevention** Wear eye/face protection. Wash thoroughly after handling.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

OAO No. / FO No. | DEAOU Demistration No.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Supplemental label information None.

Other hazards Not a PBT or vPvB substance or mixture.

## Section 3: Composition/information on ingredients

**Mixture** 

**General information** 

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
2-(2-Butoxyethoxy)-Ethanol		5 - < 10	112-34-5 203-961-6	-	603-096-00-8	#
Classification:	DSD:	Xi;R36				
	CLP:	Eye Irrit. 2;H319				
Alkyl polyglycoside		1-<2,5	132778-08-6 603-654-0	-	-	
Classification:	DSD:	Xi;R38-41				
	CLP:	Skin Irrit. 2;H315	, Eye Dam. 1;H318			
Sodium Decyl Sulphate		1-<2,5	142-87-0 205-568-5	-	-	
Classification:	DSD:	Xn;R22, Xi;R38-	41			
	CLP:	Acute Tox. 4;H30	02, Skin Irrit. 2;H315	, Eye Dam. 1;H318		
Sodium Octyl Sulphate		< 1	142-31-4 205-535-5	-	-	
Classification:	DSD:	Xi;R36/37/38				
	CLP:	Skin Irrit. 2;H315	, Eye Irrit. 2;H319, \$	STOT SE 3;H335		
Water		Balance	7732-18-5 231-791-2	-	-	
Classification:	DSD:	-				
	CLP:	-				

<sup>#:</sup> This substance has workplace exposure limit(s).

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.

The full text for all R- and H-phrases is displayed in section 16.

Tridol ATF C 3/6 SDS EU

### Section 4: First aid measures

### **Description of first aid measures**

Inhalation Move injured person into fresh air and keep person calm under observation. Get medical attention

if discomfort persists.

Skin contact Wash the skin immediately with soap and water. Get medical attention if irritation develops and

persists.

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open

eyes wide apart. Get medical attention if irritation develops and persists.

Ingestion Immediately rinse mouth and drink plenty of water. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

Symptoms can include irritation, redness, scratching of the cornea, and tearing. Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure

may be headache, dizziness, tiredness, nausea and vomiting. Provide general supportive measures and treat symptomatically.

Indication of any immediate medical attention and special treatment needed

## Section 5: Firefighting measures

General fire hazards Product is an extinguishing media. It does not burn or support combustion.

**Extinguishing media** 

Suitable extinguishing

media

No specific measures are required as this product is a fire extinguishing medium.

Unsuitable extinguishing

media

Not applicable.

Special hazards arising from the substance or mixture

Not a fire hazard.

Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

Special firefighting

procedures

No specific precautions.

### Section 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Avoid contact with skin and eyes. Avoid inhalation of mists or aerosols. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.

For emergency responders

Use personal protection recommended in Section 8 of the SDS.

**Environmental precautions** 

For large (industrial) releases, prevent spill from entering a waterway.

Methods and material for containment and cleaning up Absorb spillage with suitable absorbent material. Collect and dispose of spillage as indicated in

Section 13.

Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

### Section 7: Handling and storage

Avoid contact with skin and eyes. Wear appropriate personal protective equipment. Wash hands Precautions for safe handling

after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store at temperature below 40°C. Store above freezing.

Store away from incompatible materials.

Fire fighting foam concentrate. Specific end use(s)

## Section 8: Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

#### Austria. MAK List

Components	Туре	Value
2-(2-Butoxyethoxy)-Ethanol (112-34-5)	MAK	97,5 mg/m3
	STEL	10 ppm 101,2 mg/m3 15 ppm

Tridol ATF C 3/6 SDS EU

Belgium.	<b>Exposure</b>	Limit	Values.

Components	Туре	Value	
2-(2-Butoxyethoxy)-Ethanol 112-34-5)	STEL	101,2 mg/m3	
	TWA	15 ppm 67,5 mg/m3 10 ppm	
Czech Republic. OELs. Governme	nt Decree 361	то ррпі	
Components	Туре	Value	
2-(2-Butoxyethoxy)-Ethanol 112-34-5)	Ceiling	100 mg/m3	
112 01 0)	TWA	70 mg/m3	
France. Threshold Limit Values (V	LEP) for Occupational Expos	ure to Chemicals in France, IN	RS ED 984
Components	Туре	Value	
2-(2-Butoxyethoxy)-Ethanol 112-34-5)	VLE	101,2 mg/m3	
	VME	15 ppm 67,5 mg/m3 10 ppm	
Germany. TRGS 900, Limit Values	in the Ambient Air at the Wor	• •	
Components	Туре	Value	
2-(2-Butoxyethoxy)-Ethanol (112-34-5)	AGW	100 mg/m3	
taly. OELs			
Components	Туре	Value	
2-(2-Butoxyethoxy)-Ethanol (112-34-5)	STEL	101,2 mg/m3	
	TWA	15 ppm 67,5 mg/m3 10 ppm	
Netherlands. OELs (binding)			
Components	Туре	Value	
2-(2-Butoxyethoxy)-Ethanol (112-34-5)	STEL	100 mg/m3	
Namuay Administrativa Narma for	TWA	50 mg/m3	
Norway. Administrative Norms for	-		
Components  Components  Components	Type	Value	
2-(2-Butoxyethoxy)-Ethanol (112-34-5)	TLV	10 ppm	
Poland. MACs. Minister of Labour	and Social Policy Regarding	68 mg/m3 Maximum Allowable Concentr	ations and Intensities
Working Environment Components	Туре	Value	
2-(2-Butoxyethoxy)-Ethanol	STEL	100 mg/m3	
(112-34-5)		· ·	
Hygiene Norm GN 2.2.5.2439-09. N			ces in the air of workir
zones. Executive No. 76 of 30 apri		No.1, 2, 3 and 4. Value	Form
Components	1.//^	value	FUIIII
Components	Type	40 1 0	A = == = - !
Components 2-(2-Butoxyethoxy)-Ethanol (112-34-5)	Ceiling	10 mg/m3	Aerosol
2-(2-Butoxyethoxy)-Ethanol	Ceiling	10 mg/m3	Aerosol
2-(2-Butoxyethoxy)-Ethanol (112-34-5)	Ceiling	10 mg/m3 <b>Value</b>	Aerosol
2-(2-Butoxyethoxy)-Ethanol 112-34-5) Spain. Occupational Exposure Lin	Ceiling nits	·	Aerosol

Tridol ATF C 3/6 SDS EU

Components	Туре	Value		
		10 ppm		
Sweden. Occupational Expo	osure Limit Values			
Components	Туре	Value		
2-(2-Butoxyethoxy)-Ethanol (112-34-5)	STEL	200 mg/m3		
,	TWA	30 ppm 100 mg/m3 15 ppm		
Switzerland. SUVA Grenzwe	erte am Arbeitsplatz			
Components	Туре	Value		
2-(2-Butoxyethoxy)-Ethanol (112-34-5)	STEL	101,2 mg/m3		
		15 ppm		
	TWA	67 mg/m3 10 ppm		
UK. EH40 Workplace Expos	ure l imits (WFI s)	ТО РРПП		
Components	Type	Value		
2-(2-Butoxyethoxy)-Ethanol	STEL	101,2 mg/m3		
(112-34-5)	0.22	, <u></u>		
	TWA	15 ppm 67,5 mg/m3 10 ppm		
ommended monitoring cedures	Follow standard monitoring procedure	• •		
:L	Not available.	Not available.		
:C	Not available.			
osure controls				
ropriate engineering trols	Ensure adequate ventilation, especially in confined areas. Observe occupational exposure limits and minimise the risk of exposure.			
vidual protection measures,	such as personal protective equipme	ent		
General information	Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.			
Eye/face protection	Wear approved safety goggles.			
Skin protection				
- Hand protection	Wear suitable gloves. Butyl rubber gloves are recommended. Suitable gloves can be recommended by the glove supplier.			
- Other	Wear suitable protective clothing.			
Respiratory protection	In case of inadequate ventilation: Use respiratory equipment with combination filter, type A2/P2.			
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.			
iene measures	measures  Handle in accordance with good industrial hygiene and safety practices. Routinely was clothing and protective equipment to remove contaminants.			

**Environmental exposure** 

controls

Contain spills and prevent releases and observe national regulations on emissions.

Environmental manager must be informed of all major spillages.

# Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid. **Form** Liquid. Colour Pale yellow. Odour Organic. **Odour threshold** Not available. 6 - 8 рΗ

Melting point/freezing

point

Tridol ATF C 3/6 SDS EU

4601 Version No.: 02 Revision date: 03-December-2014

Not available.

Boiling point, initial boiling point, and boiling range

100 °C (212 °F) @ 760 mmHg

> 98 °C (> 208,4 °F) Flash point **Auto-ignition temperature** Not applicable. Not available. Flammability (solid, gas) Not available. Flammability limit - lower

(%)

Flammability limit - upper

(%)

Not available.

**Oxidising properties** Not applicable. **Explosive properties** Not applicable. **Explosive limit** Not applicable. Vapour pressure Not applicable. Vapour density Not applicable. **Evaporation rate** Not applicable.

Relative density 1,015 Solubility (water)

Miscible in all proportions. Partition coefficient

No data available. (n-octanol/water)

Decomposition

Not available. temperature

**Viscosity** 

Not available. Percent volatile Not available. Other information

No relevant additional information available.

## Section 10: Stability and reactivity

Reactivity The product is stable and non reactive under normal conditions of use, storage and transport.

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

Conditions to avoid Contact with incompatible materials. Excessive heat. Freezing (Product properties are

unaffected).

Incompatible materials Alkali metals. Strong oxidising agents. Water reactive materials.

Hazardous decomposition

products

Carbon oxides. Sulphur oxides. Hydrogen fluoride. Nitrogen oxides (NOx). Magnesium oxides.

# **Section 11: Toxicological information**

**General information** The information in this section is for the individual ingredients that are expected to contribute to

the potential health effects of this product.

Information on likely routes of exposure

May cause discomfort if swallowed. Ingestion

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact May cause skin irritation. Eye contact Causes serious eye irritation.

Symptoms can include irritation, redness, scratching of the cornea, and tearing. Symptoms may **Symptoms** 

include redness, oedema, drying, defatting and cracking of the skin.

Information on toxicological effects

May cause skin and eye irritation. May cause central nervous system effects. Acute toxicity

Components **Test results** 

2-(2-Butoxyethoxy)-Ethanol (112-34-5) Acute Dermal LD50 Rabbit: 2700 mg/kg Acute Oral LD50 Rat: 4500 mg/kg Sodium Decyl Sulphate (142-87-0) Acute Oral LD50 Rat: 1950 mg/kg

Skin corrosion/irritation Prolonged contact may cause dryness of the skin.

Serious eye damage/eye

irritation

Causes serious eye irritation. Exposed may experience eye tearing, redness, and discomfort.

Respiratory sensitisation No data available. Skin sensitisation Not a skin sensitiser.

Tridol ATF C 3/6 SDS FII 6/8

Germ cell mutagenicity No data available. No data available. Carcinogenicity Reproductive toxicity No data available. Specific target organ No data available.

toxicity - single exposure

Specific target organ

toxicity - repeated

No data available.

**Aspiration hazard** 

Mixture versus substance information

exposure

No data available None known.

Other information

Persons with pre-existing skin disorders may be more susceptible to the effects of the product.

Prolonged contact may cause dryness of the skin.

# **Section 12: Ecological information**

**Toxicity** No toxicity data noted for the ingredient(s).

Persistence and

No data available.

degradability

Bioaccumulative potential No data available.

Mobility The product is water soluble and may spread in water systems.

**Environmental fate -**

Partition coefficient

No data available.

Mobility in soil No data available. Results of PBT and No data available. vPvB assessment

Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13: Disposal considerations

Waste treatment methods

Residual waste Dispose of waste and residues in accordance with local authority requirements.

Contaminated packaging Dispose of in accordance with local regulations. Empty containers should be taken to an approved

waste handling site for recycling or disposal.

EU waste code 16 03 05\* Waste codes should be assigned by the user based on the application for which the

product was used.

Dispose of waste and residues in accordance with local authority requirements. Disposal methods/information

### **Section 14: Transport information**

#### ADR

The product is not covered by international regulation on the transport of dangerous goods.

The product is not covered by international regulation on the transport of dangerous goods.

**ADN** 

The product is not covered by international regulation on the transport of dangerous goods.

**IATA** 

The product is not covered by international regulation on the transport of dangerous goods.

**IMDG** 

The product is not covered by international regulation on the transport of dangerous goods.

Transport in bulk according to

No information available.

Annex II of MARPOL73/78 and

the IBC Code

## **Section 15: Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture

### **EU Regulations**

Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution **Emission Registery (EPER)** 

Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List

Not listed.

Tridol ATF C 3/6 SDS FII

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Other regulations The product is classified and labelled in accordance with EC directives or respective national

laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulationsFollow national regulation for work with chemical agents.Chemical safety assessmentNo Chemical Safety Assessment has been carried out.

#### **Section 16: Other information**

List of abbreviations DNEL: Derived No-Effect Level. PNEC: Predicted No-Effect Concentration. PBT: Persistent,

bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative.

References HSDB

**IUCLID** 

RTECS (2010)

Information on evaluation method leading to the classification of mixture

The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if

available. For details, refer to Sections 9, 11 and 12.

Full text of any statements or R-phrases and H-phrases under Sections 2 to 15

R22 Harmful if swallowed. R36 Irritating to eyes.

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

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

H302 - Harmful if swallowed. H315 - Causes skin irritation.

H318 - Causes serious eye damage. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

Training information

Follow training instructions when handling this material.

Disclaimer

This information is based on our current knowledge and is believed to be correct as of the date issued. The information is intended to describe the product for the purposes of health, safety and environmental requirements only and no warranty, express or implied, is made. It should also not be construed as guaranteeing any specific property of the product. In addition, information obtained from a database is subject to change and may not be as current as the information in the

MSDS available directly from Angus Fire.

Tridol ATF C 3/6 SDS EU