

SAFETY DATA SHEET

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

Product identifier

Trade name or designation

of the mixture

Alcoseal 3/6

Registration number

Synonyms None

SDS number

Product code 70 - 05

Date of first issue 16-September-2011

Version number

Revision date 03-December-2014 16-September-2011 Supersedes date

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 name Angus Fire Ltd Station Road **Address**

Bentham, Lancashire, LA2 7NA

0044 (0)15 2426 4000 Phone number:

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

Contact person EH&S Manager

Emergency telephone

number

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

Classification R43

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

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

Health hazards

Skin sensitisation Category 1 May cause an allergic skin

reaction.

Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards May cause sensitisation by skin contact. Occupational exposure to the substance or mixture may

cause adverse health effects.

Environmental hazards Not classified for hazards to the environment.

Specific hazards May cause skin and eye irritation. May cause irritation of nose, throat and mucous membranes.

Contact may cause irritation and redness. Sensitisation. Main symptoms

Label elements

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

1,3,5-tris(2-hydroxyethyl)hexahydro-1,3,5-triazine Contains:



Alcoseal 3/6 1/8

4616 Version No.: 02 Revision date: 03-December-2014 Signal word Warning

Hazard statements May cause an allergic skin reaction.

Precautionary statements

Prevention Avoid breathing mist/vapours/spray. Contaminated work clothing should not be allowed out of the

workplace. Wear protective gloves.

Response IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical

advice/attention. Wash contaminated clothing before reuse.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

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-Methylpentane-2,4-did	ol	1 - 5	107-41-5 203-489-0	-	603-053-00-3	#
Classification:	DSD:	Xi;R36/38				
	CLP:	Skin Irrit. 2;H31	5, Eye Irrit. 2;H319			
Sodium chloride		1 - < 3	7647-14-5 231-598-3	-	-	#
Classification:	DSD:	-				
	CLP:	-				
1,3,5-tris(2-hydroxyethyl-1,3,5-triazine	l)hexahy	dro 0,1 - 0,5	4719-04-4 225-208-0	-	613-114-00-6	
Classification:	DSD:	Xn;R22, R43				

^{#:} 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.

CLP: Acute Tox. 4;H302, Skin Sens. 1;H317

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

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 needed.

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

persists. If skin rash or an allergic skin reaction develops, get medical attention.

Eye contact Immediately flush eye(s) with plenty of water. Remove any contact lenses. Get medical attention if

irritation develops or persists.

Ingestion Immediately rinse mouth and drink plenty of water. Keep person under observation. If person

becomes uncomfortable take to hospital along with these instructions. Only induce vomiting at the

instruction of medical personnel.

Most important symptoms and effects, both acute and delayed

Contact may cause irritation and redness. Sensitisation.

Indication of any immediate medical attention and special

Provide general supportive measures and treat symptomatically.

treatment needed

Section 5: Firefighting measures

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

Alcoseal 3/6 SDS EU

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

Use personal protection recommended in Section 8 of the SDS. For emergency responders

Environmental precautions Prevent entry into waterways, sewer, basements or confined areas.

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

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

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-Methylpentane-2,4-diol (107-41-5)	Ceiling	10 ppm	
,	MAK	10 ppm	
		49 mg/m3	
	Ceiling	49 mg/m3	
Belgium. Exposure Limit Values.			
Components	Туре	Value	
2-Methylpentane-2,4-diol (107-41-5)	TWA	123 mg/m3	
		25 ppm	

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984			
Components	Туре	Value	
2-Methylpentane-2,4-diol (107-41-5)	VLE	125 mg/m3	
•		25 ppm	

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Туре	Value	
2-Methylpentane-2,4-diol	TWA	10 ppm	
(107-41-5)		• •	

Greece. OELs (Decree No	. 90/1999. as amended)
Ciddoc. GEEG (Booled No	oo, rooo, ao amenaca,

Greece. OELs (Decree No. 90/1999, as amended)			
Components	Туре	Value	
2-Methylpentane-2,4-diol (107-41-5)	STEL	125 mg/m3	
,	TWA	125 mg/m3	

49 mg/m3

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Components	Туре	Value	
		25 ppm	
	STEL	25 ppm	
Italy. OELs	Time	Value	
Components 2 Mathylpontone 2 4 dial	Type Ceiling	Value	
2-Methylpentane-2,4-diol (107-41-5)	Cening	25 ppm	
Norway. Administrative No	orms for Contaminants in the Workpla	ce	
Components	Туре	Value	
2-Methylpentane-2,4-diol (107-41-5)	Ceiling	100 mg/m3	
(107-41-3)		20 ppm	
Poland. MACs. Minister of	Labour and Social Policy Regarding I	• •	ons and Intensities in
Working Environment	_		
Components	Type	Value	
2-Methylpentane-2,4-diol (107-41-5)	Ceiling	120 mg/m3	
· ·	l39-09. Maximum allowable concentrat	on (MAC) of harmful substances	s in the air of workin
zones. Executive No. 76 of	f 30 april 2006. Including Appendixes I		
Components	Туре		Form
Sodium chloride (7647-14-5)	Ceiling	5 mg/m3	Aerosol
Spain. Occupational Expo	sure Limits		
Components	Туре	Value	
2-Methylpentane-2,4-diol	STEL	123 mg/m3	
(107-41-5)		25 ppm	
Sweden. Occupational Exp	nosura Limit Values	25 ppm	
Components	Type	Value	
2-Methylpentane-2,4-diol	Ceiling	120 mg/m3	
(107-41-5)		25 ppm	
Switzerland SIIVA Grenzy	vorto am Arhaitenlatz	23 ρβιτί	
Switzerland. SUVA Grenzy Components	werte am Arbeitsplatz Type	Value	
Components 2-Methylpentane-2,4-diol			
Components	Type TWA	Value 10 ppm	
Components 2-Methylpentane-2,4-diol	Type TWA STEL	Value 10 ppm 20 ppm	
Components 2-Methylpentane-2,4-diol	Type TWA	Value 10 ppm	
Components 2-Methylpentane-2,4-diol (107-41-5) UK. EH40 Workplace Expo	Type TWA STEL TWA STEL	Value 10 ppm 20 ppm 49 mg/m3 98 mg/m3	
Components 2-Methylpentane-2,4-diol (107-41-5) UK. EH40 Workplace Expo	Type TWA STEL TWA STEL OSURE Limits (WELS) Type	Value 10 ppm 20 ppm 49 mg/m3 98 mg/m3	
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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.

Hygiene measures Handle in accordance with good industrial hygiene and safety practices. Routinely wash work

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
Form
Liquid.
Colour
Dark brown.

Odour
Organic.
Odour threshold
PH
6,5 - 7,5 at 20°C

Melting point/freezing

point

-7 °C (19,4 °F)

Boiling point, initial boiling point, and boiling range

100 °C (212 °F) at 20 °C

Flash point > 54 °C (> 129,2 °F)

Auto-ignition temperature Not applicable.

Flammability (solid, gas) Not applicable.

Flammability limit - lower Not applicable.

(%)

Flammability limit - upper

(%)

Not applicable.

Oxidising properties

Explosive properties

Explosive limit

Vapour pressure

Vapour density

Evaporation rate

Relative density

Not oxidizing.

Not explosive.

Not applicable.

Not applicable.

Not applicable.

1,09

Solubility (water)

Partition coefficient
(n-octanol/water)

No data available.

No data available.

Decomposition

temperature Not available.

Viscosity

Percent volatile

Other data

Not available.

Not available.

Flammability

Other information Not applicable.

No relevant additional information available.

Section 10: Stability and reactivity

ReactivityThe 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. Chlorine. Sulphur oxides. Metal oxides. Nitrogen oxides (NOx). Hydrogen fluoride.

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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

Ingestion May cause discomfort if swallowed.

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

Skin contact May cause skin irritation. May cause an allergic skin reaction.

May cause eye irritation on direct contact. Eye contact

Symptoms Skin sensitization, characterized by redness, inflammation, itching and/or burning may result from

prolonged or repeated contact with this material.

Information on toxicological effects

2-Methylpentane-2,4-diol (107-41-5)

Acute toxicity May cause skin and eye irritation. May cause an allergic skin reaction.

Components **Test results**

Skin corrosion/irritation Prolonged skin contact may cause dermatitis.

Serious eye damage/eye irritation

May cause eye irritation.

Respiratory sensitisation

No data available.

No data available.

Skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity - single exposure

No data available. No data available. No data available.

Specific target organ

toxicity - repeated exposure

No data available.

Aspiration hazard

Mixture versus substance

information

No data available. None known.

Other information

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

Acute Oral LD50 Rat: 4,79 g/kg

May cause irritation of nose, throat and mucous membranes.

Section 12: Ecological information

Toxicity

Product	Test results
Alcoseal 3/6 (Mixture)	EC50 Daphnia magna: 10700 mg/l 24 hours
	EC50 Daphnia magna: 9800 mg/l 48 hours
	EC50 Water flea (Daphnia magna): 38300 mg/l 2 Hours
	LC50 Rainbow trout, donaldson trout (Oncorhynhus mykiss): 3700 mg/l 24 Hours
	LC50 Rainbow trout, donaldson trout (Oncorhynhus mykiss): 8500 mg/l 3 Hours
	LC50 Rainbow trout, donaldson trout (Oncorhynhus mykiss): 3300 mg/l 48 Hours
	LC50 Rainbow trout, donaldson trout (Oncorhynhus mykiss): 6400 mg/l 6 Hours
	LC50 Rainbow trout, donaldson trout (Oncorhynhus mykiss): 3300 mg/l 72 Hours
	LC50 Rainbow trout, donaldson trout (Oncorhynhus mykiss): 3300 mg/l 96 Hours
Components	Test results
2-Methylpentane-2,4-diol (107-41-5)	EC50 Water flea (Ceriodaphnia reticulata): 2400 - 3200 mg/l 48 hours
	LC50 Bleak (Alburnus alburnus): 7000 - 9100 mg/l 96 hours
Sodium chloride (7647-14-5)	EC50 Water flea (Daphnia magna): 340,7 - 469,2 mg/l 48 hours

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4616 Version No.: 02 Revision date: 03-December-2014 Persistence and The product is biodegradable. COD: 0,29 gg-1 BOD: 0,078 gg-1/ 5 days. BOD: 0,23 gg-1/ 15

days. BOD: 0,27 gg-1/28 days. degradability

Bioaccumulative potential The product is not expected to bioaccumulate.

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

Not a PBT or vPvB substance or mixture.

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.

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.

IMDG

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

Transport in bulk according to

Annex II of MARPOL73/78 and

the IBC Code

No information available.

Section 15: Regulatory information

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

EU Regulations

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. 850/2004 on persistent organic pollutants, Annex I

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

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

Sodium chloride (CAS 7647-14-5)

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

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.

Alcoseal 3/6 SDS FII National regulations Young people under 18 years old are not allowed to work with this product according to EU

Directive 94/33/EC on the protection of young people at work. Follow national regulation for work

with chemical agents.

Chemical safety assessment No 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® - Hazardous Substances Data Bank

Registry of Toxic Effects of Chemical Substances (RTECS)

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. R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

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

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

Training information

Disclaimer

Follow training instructions when handling this material.

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.

Alcoseal 3/6 SDS EU