

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORCHIDEX AFFF 3% UL

Print date: 26.07.2016

Product code: 1.500.1.18

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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

extinguishing agent

1.3. Details of the supplier of the safety data sheet

Company name:	Orchidee Europe BVBA	
Street:	Brielen 2, Tisselt, Belgium	
Place:	BE 2830	
Telephone:	+33-3 22 41 30 89	Telefax: +33-3 22 41 32 88
e-mail:	contact@orchidee-europe.com	
e-mail (Contact person):	contact@orchidee-europe.com	
Internet:	WWW.ORCHIDEE-EUROPE.COM	
Responsible Department:	Office Open Hours: 08:00-17:00	

1.4. Emergency telephone number:

+33-3 22 41 30 89

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes serious eye damage.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

Alcohols, C6-12, ethoxylated, sulfate, sodium salt

Sodium Octyl Sulfate

Signal word: Danger**Pictograms:****Hazard statements**

H318 Causes serious eye damage.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	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/doctor.

2.3. Other hazards

Within expanded foam respiration is not possible, danger of suffocation!

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
161025-28-1	Alcohols, C6-12, ethoxylated, sulfate, sodium salt			1 - < 5 %
	500-485-3			
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			1 - < 5 %
	203-961-6	603-096-00-8		
	Eye Irrit. 2; H319			
142-31-4	Sodium Octyl Sulfate			1 - < 5 %
	205-535-5			
	Skin Irrit. 2, Eye Dam. 1; H315 H318			

Full text of H and EUH statements: see section 16.

Further Information

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible). Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of edible oil and seek medical advice.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Irritation and etching

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product itself is fire extinguishing agent

5.2. Special hazards arising from the substance or mixture

At high temperature : concentrate gives toxic products. Thermal decomposition of usage concentrations does not present a hazard.

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5.3. Advice for firefighters

Avoid contact with water reactive materials, burning metals and electrically energized equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Use appropriate respiratory protection.

6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

Clean contaminated objects and areas thoroughly observing environmental regulations. Treat the assimilated material according to the section on waste disposal.

6.3. Methods and material for containment and cleaning up

Soak up inert absorbent and dispose as waste requiring special observation. Use approved industrial vacuum cleaner for removal. Collect in closed containers for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed and in a well-ventilated place.

Advice on protection against fire and explosion

No special handling instructions are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place.

Advice on storage compatibility

Maximum storage temperature: 50

Minimum storage temperature: -3

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	WEL
		15	101.2		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.

Protective and hygiene measures

Avoid contact with skin, eye and clothing. When handling chemical substances, chemical protective gloves must be worn with CE label including a four digit code. Do not eat, drink, smoke or sneeze at the workplace.

Eye/face protection

"Avoid eye contact with vapour, spray, or mist. Wear vented goggles."

Hand protection

Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: Butyl rubber.

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Skin protection

Avoid skin contact.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	amber coloured

Test method

pH-Value (at 20 °C):	6-9.5
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Changes in the physical state

Melting point:	-5 °C
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Initial boiling point and boiling range:	100 °C
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Sustaining combustion:	Not sustaining combustion
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Density (at 20 °C):	1.02+ _0.02 g/cm³
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Water solubility:	highly soluble.
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Viscosity / dynamic: (at 25 °C)	298 mPa·s
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Solvent content:	.81 %
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9.2. Other information

Solid content:	9.02 %
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SECTION 10: Stability and reactivity**10.1. Reactivity**

none/none

10.2. Chemical stability

The study does not need to be conducted because the substance is known to be soluble in water to form a stable mixture.

10.3. Possibility of hazardous reactions

none/none

10.4. Conditions to avoid

none/none

10.5. Incompatible materials

none/none

10.6. Hazardous decomposition products

none/none

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

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Acute toxicity

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			
	oral	LD50 5660 mg/kg	Rat	
	dermal	LD50 4120 mg/kg	Rabbit	

SECTION 12: Ecological information

12.1. Toxicity

product has not been tested.

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether				
	Acute algae toxicity	ErC50 > 100 mg/l		Scenedesmus sp.	
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	

12.2. Persistence and degradability

product has not been tested.

12.3. Bioaccumulative potential

product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	0,56 (25°C)

12.4. Mobility in soil

product has not been tested.

12.5. Results of PBT and vPvB assessment

product has not been tested.

12.6. Other adverse effects

product has not been tested.

Further information

Depending on local conditions and existing concentrations, in the case of discharge into biological sewage treatment plants, problems in the decomposition activity of activated sludge are possible.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Waste disposal according to official state regulations. Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions.

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

Not classified for this carrier.

Inland waterways transport (ADN)

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Other applicable information (inland waterways transport)

Not classified for this carrier.

Marine transport (IMDG)**Other applicable information (marine transport)**

Not classified for this carrier.

Air transport (ICAO)**Other applicable information (air transport)**

Not classified for this carrier.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC): .617 % (6.293 g/l)

2004/42/EC (VOC): 2.625 % (26.774 g/l)

National regulatory information

Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

For this mixture a chemical safety assessment has been carried out.

SECTION 16: Other information**Relevant H and EUH statements (number and full text)**

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)