

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 27.07.2017

Orchidex AFFF 6% ECO

Product code: 1.500.1.22

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

Orchidex AFFF 6% ECO

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
Place: B 2830, Tiselt, Belgium
Telephone: +32 (0) 3 291 05 42 Telefax: +32 (0) 14 58 33 11
e-mail: admin.sales@orchidee-europe.com
e-mail (Contact person): admin.sales@orchidee-europe.com
Internet: WWW.ORCHIDEE-EUROPE.COM
Responsible Department: Office Open Hours: 08:00-17:00

1.4. Emergency telephone number: +32 (0) 3 291 05 42

SECTION 2: Hazards identification**2.2. Label elements****Regulation (EC) No. 1272/2008****Special labelling of certain mixtures**

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210 Safety data sheet available on request.

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

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			1 - < 5 %
	203-961-6	603-096-00-8		
	Eye Irrit. 2; H319			

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 unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). "If signs or symptoms occur, remove person to fresh air. If not breathing, give artificial

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respiration. If breathing is difficult, get immediate medical attention."

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After contact with eyes

Immediately flush eyes with large amounts of water. Get immediate medical attention.

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 unwellness, seek medical advice immediately (show directions for use or 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.

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 (refer to section 8). Use appropriate respiratory protection.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Clean contaminated objects and areas thoroughly observing environmental regulations. Treat the recovered material as prescribed in 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 attention. Use approved industrial vacuum cleaner for removal. Collect in closed and suitable 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 advices 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 0

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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 exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Protective and hygiene measures

Avoid contact with skin, eyes and clothes. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. When using do not eat, drink, smoke, sniff.

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.

Skin protection

Avoid skin contact.

Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	"Clear, colored liquid"
pH-Value (at 20 °C):	6-9.5

Changes in the physical state

Melting point:	-2 °C
Initial boiling point and boiling range:	100 °C
Sustaining combustion:	Not sustaining combustion
Density (at 20 °C):	1.01+-0.02 g/cm ³
Water solubility:	very soluble
Viscosity / dynamic: (at 20 °C)	<20 mPa·s
Solvent content:	.08 %

9.2. Other information

Solid content:	2.46 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

none

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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

10.4. Conditions to avoid

none

10.5. Incompatible materials

none

10.6. Hazardous decomposition products

none

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

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

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

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

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12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

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

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

There are no data available on the mixture itself.

12.6. Other adverse effects

There are no data available on the mixture itself.

Further information

Depending on local conditions and existing concentrations, in the case of discharge in biological sewage 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 transport way.

Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

Not classified for this transport way.

Marine transport (IMDG)

Other applicable information (marine transport)

Not classified for this transport way.

Air transport (ICAO-TI/IATA-DGR)

Other applicable information (air transport)

Not classified for this transport way.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 55: 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether

2010/75/EU (VOC): .075 % (.765 g/l)

2004/42/EC (VOC): 2.158 % (22.007 g/l)

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

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National regulatory information

Water contaminating class (D): 1 - slightly 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)**

H319	Causes serious eye irritation.
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

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.)