

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Orchidex AFFF 1% TP

Revision date: 16.09.2019

Product code: 1.500.1.10

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

#### 1.1. Product identifier

Orchidex AFFF 1% TP

#### 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, Tisselt, 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

+32 (0) 3 291 05 42

#### number:

### 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 Irrit. 2

Hazard Statements:

Causes serious eye irritation.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

Signal word: Warning

Pictograms:



##### Hazard statements

H319 Causes serious eye irritation.

##### Precautionary statements

P264 Wash hands thoroughly after handling.  
 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.  
 P337+P313 If eye irritation persists: Get medical advice/attention.

##### Special labelling of certain mixtures

EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

### SECTION 3: Composition/information on ingredients

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### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether			15 - < 20 %
	203-961-6	603-096-00-8		
	Eye Irrit. 2; H319			
110615-47-9	D-Glucopyranose oligomeric C10-16-alkyl glycosides			1 - < 5 %
	600-975-8			
	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 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 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.

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

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

Clean contaminated articles and floor according to the environmental legislation. 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.

##### **Hints on joint storage**

maximum storage temperature 50

minimum storage temperature 0

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

##### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	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.

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**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:	
pH-Value (at 20 °C):	6-9.5
<b>Changes in the physical state</b>	
Melting point:	-2 °C
Initial boiling point and boiling range:	100 °C
Flash point:	ca. 100 - 110 °C
Sustaining combustion:	Not sustaining combustion
Density (at 20 °C):	1.02+-0.02 g/cm <sup>3</sup>
Water solubility:	very soluble
Viscosity / kinematic: (at 20 °C)	30-90 mm <sup>2</sup> /s
Solvent content:	.77 %

**9.2. Other information**

Solid content:	7.03 %
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

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

**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.

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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

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

#### 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	

### 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 $\frac{1}{2}$ °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.

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**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

2004/42/EC (VOC): 19.27 % (196.556 g/l)

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

**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****Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method

**Relevant H and EUH statements (number and full text)**

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

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EUH208

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

**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.

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