

Issuing Date 25-Oct-2021

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Revision Number 1

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

### **1.1. Product identifier**

Product Name Proflow

Synonyms None

Pure substance/mixture Mixture

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

Recommended use Anticoagulants

Uses advised against No information available

### **1.3. Details of the supplier of the safety data sheet**

#### **Manufacturer**

The MazWell Group Ltd.  
Units 11/14-15 Ardglen  
Industrial Estate,  
Whitchurch, Hampshire,  
RG28 7BB, United Kingdom  
+44 (0)1256-893883  
+44 (0)1256-893868  
enquiries@themazwellgroup.co  
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#### **Supplier**

Medenta GmbH  
Huckrieden Esch 9,  
49549 Ladbergen.  
Germany  
(05485) 2020  
info@medenta.de

### **For further information, please contact**

### **1.4. Emergency telephone number**

Emergency telephone No information available

Emergency telephone - §45 - (EC)1272/2008
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Europe	112
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## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

***Regulation (EC) No 1272/2008***

Serious eye damage/eye irritation	Category 2 - (H319)
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### **2.2. Label elements**

Contains Hexylene glycol

**Signal word**

Warning

**Hazard statements**

H319 - Causes serious eye irritation

**Precautionary Statements - EU (§28, 1272/2008)**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear 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

**2.3. Other hazards**

Causes mild skin irritation.

**Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Hexylene glycol 107-41-5	5-<10	No data available	203-489-0	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	-	-	-
Sodium borate 1303-96-4	1-<2.5	No data available	No information available	Repr. 1B (H360FD)	Repr. 1B :: C>=8.5%	-	-
Dimethyl sulfoxide 67-68-5	1-<2	No data available	200-664-3	No data available	-	-	-
Propylene Glycol 57-55-6	1	No data available	200-338-0	No data available	-	-	-
Sodium hydroxide 1310-73-2	<0.1	-	215-185-5	Met. Corr. 1 (H290) Skin Corr. 1A (H314)	Eye Irrit. 2 :: 0.5%<=C<2% Skin Corr. 1A :: C>=5% Skin Corr. 1B :: 2%<=C<5% Skin Irrit. 2 :: 0.5%<=C<2%	-	-
Phenyl ether 101-84-8	<0.1	No data available	202-981-2	No data available	-	-	-

p-cresol 106-44-5	<0.1	No data available	203-398-6	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Corr. 1B (H314)	-	-	-
Pin-2(3)-ene 80-56-8	<0.1	No data available	201-291-9	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	1	1

**Full text of H- and EUH-phrases: see section 16**

**Acute Toxicity Estimate**

***If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components***

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Hexylene glycol 107-41-5	3700	12300	0.0775	No data available	No data available
Sodium borate 1303-96-4	3493	10000	No data available	No data available	No data available
Dimethyl sulfoxide 67-68-5	28300	40000	No data available	No data available	No data available
Propylene Glycol 57-55-6	20000	20800	No data available	No data available	No data available
Sodium hydroxide 1310-73-2	325	1350	No data available	No data available	No data available
Phenyl ether 101-84-8	2450	7940	No data available	No data available	No data available
p-cresol 106-44-5	207	300	0.1775	No data available	No data available
Pin-2(3)-ene 80-56-8	3700	5000	No data available	No data available	No data available

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No	SVHC candidates
Sodium borate	1303-96-4	X

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Ingestion</b>	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

<b>Symptoms</b>	May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.
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#### **4.3. Indication of any immediate medical attention and special treatment needed**

<b>Note to doctors</b>	Treat symptomatically.
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### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire.
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#### **5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards arising from the chemical</b>	No information available.
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<b>Hazardous combustion products</b>	Carbon oxides.
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#### **5.3. Advice for firefighters**

<b>Specific/special fire-fighting measures</b>	Fires need to be assessed to determine appropriate protocols and safety measures for firefighting, including establishing safe zones, extinguishing media to be used, firefighter protection, and actions to control or extinguish the fire.
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<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.
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<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.
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**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal. After cleaning, flush away traces with water.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

#### **Specific use(s).**

The identified uses for this product are detailed in Section 1.2

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

### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Hexylene glycol 107-41-5	-	TWA: 10 ppm TWA: 49 mg/m <sup>3</sup> STEL 10 ppm STEL 49 mg/m <sup>3</sup> Ceiling: 10 ppm Ceiling: 49 mg/m <sup>3</sup>	-	-	TWA: 25 ppm TWA: 123 mg/m <sup>3</sup> STEL: 25 ppm STEL: 123 mg/m <sup>3</sup> *
Sodium borate 1303-96-4	-	-	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 5.0 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
Dimethyl sulfoxide 67-68-5	-	TWA: 50 ppm TWA: 160 mg/m <sup>3</sup> H*	-	-	-
Propylene Glycol 57-55-6	-	-	-	-	TWA: 150 ppm TWA: 474 mg/m <sup>3</sup>

Sodium hydroxide 1310-73-2	-	TWA: 2 mg/m <sup>3</sup> STEL 4 mg/m <sup>3</sup>	-	TWA: 2.0 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>
Phenyl ether 101-84-8	STEL: 14 mg/m <sup>3</sup> STEL: 2 ppm TWA: 7 mg/m <sup>3</sup> TWA: 1 ppm	TWA: 1 ppm TWA: 7 mg/m <sup>3</sup> STEL 2 ppm STEL 14 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 7 mg/m <sup>3</sup> STEL: 2 ppm STEL: 14 mg/m <sup>3</sup>	STEL: 14 mg/m <sup>3</sup> STEL: 2 ppm TWA: 7 mg/m <sup>3</sup> TWA: 1 ppm	TWA: 1 ppm TWA: 7 mg/m <sup>3</sup> STEL: 2 ppm STEL: 14 mg/m <sup>3</sup>
p-cresol 106-44-5	-	TWA: 5 ppm TWA: 22 mg/m <sup>3</sup> STEL 10 ppm STEL 44 mg/m <sup>3</sup> H*	-	-	-
Pin-2(3)-ene 80-56-8	-	-	TWA: 20 ppm	-	-
<b>Chemical name</b>	<b>Cyprus</b>	<b>Czech Republic</b>	<b>Denmark</b>	<b>Estonia</b>	<b>Finland</b>
Hexylene glycol 107-41-5	-	-	Ceiling: 25 ppm Ceiling: 125 mg/m <sup>3</sup>	-	TWA: 25 ppm TWA: 120 mg/m <sup>3</sup> STEL: 40 ppm STEL: 200 mg/m <sup>3</sup>
Sodium borate 1303-96-4	-	-	TWA: 2 mg/m <sup>3</sup> H*	TWA: 2 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup> A*	-
Dimethyl sulfoxide 67-68-5	-	-	TWA: 50 ppm TWA: 160 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 150 mg/m <sup>3</sup> STEL: 150 ppm STEL: 500 mg/m <sup>3</sup> A*	TWA: 50 ppm iho*
Sodium hydroxide 1310-73-2	-	TWA: 1 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Phenyl ether 101-84-8	STEL: 14 mg/m <sup>3</sup> STEL: 2 ppm TWA: 7 mg/m <sup>3</sup> TWA: 1 ppm	TWA: 5 mg/m <sup>3</sup> Ceiling: 10 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 7 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 7 mg/m <sup>3</sup> STEL: 2 ppm STEL: 14 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 7 mg/m <sup>3</sup> STEL: 2 ppm STEL: 14 mg/m <sup>3</sup>
p-cresol 106-44-5	-	-	TWA: 5 ppm TWA: 22 mg/m <sup>3</sup> H*	-	TWA: 5 ppm TWA: 22 mg/m <sup>3</sup> STEL: 10 ppm STEL: 45 mg/m <sup>3</sup> iho*
Pin-2(3)-ene 80-56-8	-	-	-	TWA: 25 ppm TWA: 150 mg/m <sup>3</sup> STEL: 50 ppm STEL: 300 mg/m <sup>3</sup>	-
<b>Chemical name</b>	<b>France</b>	<b>Germany</b>	<b>Germany MAK</b>	<b>Greece</b>	<b>Hungary</b>
Hexylene glycol 107-41-5	STEL: 25 ppm STEL: 125 mg/m <sup>3</sup>	-	TWA: 10 ppm TWA: 49 mg/m <sup>3</sup> Peak: 20 ppm Peak: 98 mg/m <sup>3</sup>	TWA: 25 ppm TWA: 125 mg/m <sup>3</sup> STEL: 25 ppm STEL: 125 mg/m <sup>3</sup>	-
Sodium borate 1303-96-4	TWA: 5 mg/m <sup>3</sup>	-	-	TWA: 10 mg/m <sup>3</sup>	-
Dimethyl sulfoxide 67-68-5	-	TWA: 50 ppm TWA: 160 mg/m <sup>3</sup> H*	TWA: 50 ppm TWA: 160 mg/m <sup>3</sup> Peak: 100 ppm Peak: 320 mg/m <sup>3</sup> *	-	-
Sodium hydroxide 1310-73-2	TWA: 2 mg/m <sup>3</sup>	-	-	TWA: 2 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>
Phenyl ether 101-84-8	TWA: 1 ppm TWA: 7 mg/m <sup>3</sup> *	TWA: 1 ppm TWA: 7.1 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 7.1 mg/m <sup>3</sup> Peak: 1 ppm Peak: 7.1 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 7 mg/m <sup>3</sup> STEL: 2 ppm STEL: 14 mg/m <sup>3</sup>	TWA: 7 mg/m <sup>3</sup> STEL: 14 mg/m <sup>3</sup>
p-cresol	-	TWA: 1 ppm	TWA: 1 ppm	-	-

106-44-5		TWA: 4.5 mg/m <sup>3</sup> H*	TWA: 4.5 mg/m <sup>3</sup> Peak: 1 ppm Peak: 4.5 mg/m <sup>3</sup> *		
Pin-2(3)-ene 80-56-8	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	-	-	-	-
<b>Chemical name</b>	<b>Ireland</b>	<b>Italy</b>	<b>Italy REL</b>	<b>Latvia</b>	<b>Lithuania</b>
Hexylene glycol 107-41-5	STEL: 25 ppm STEL: 125 mg/m <sup>3</sup>	-	STEL: 50 ppm STEL: 10 mg/m <sup>3</sup>	-	Ceiling: 25 ppm Ceiling: 120 mg/m <sup>3</sup> *
Sodium borate 1303-96-4	TWA: 5 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	-	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	-	TWA: 2 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup> *
Dimethyl sulfoxide 67-68-5	-	-	-	-	TWA: 50 ppm TWA: 150 mg/m <sup>3</sup> STEL: 150 ppm STEL: 500 mg/m <sup>3</sup> *
Propylene Glycol 57-55-6	TWA: 10 mg/m <sup>3</sup> TWA: 150 ppm TWA: 470 mg/m <sup>3</sup> STEL: 1410 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 450 ppm	-	-	TWA: 7 mg/m <sup>3</sup>	TWA: 7 mg/m <sup>3</sup>
Sodium hydroxide 1310-73-2	STEL: 2 mg/m <sup>3</sup>	-	Ceiling: 2 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Phenyl ether 101-84-8	TWA: 1 ppm TWA: 7 mg/m <sup>3</sup> STEL: 2 ppm STEL: 14 mg/m <sup>3</sup>	TWA: 7 mg/m <sup>3</sup> TWA: 1 ppm	TWA: 1 ppm TWA: 7 mg/m <sup>3</sup> STEL: 2 ppm STEL: 14 mg/m <sup>3</sup>	TWA: 7 mg/m <sup>3</sup> TWA: 1 ppm STEL: 14 mg/m <sup>3</sup> STEL: 2 ppm	TWA: 7 mg/m <sup>3</sup> TWA: 1 ppm STEL: 14 mg/m <sup>3</sup> STEL: 2 ppm
p-cresol 106-44-5	-	-	TWA: 20 mg/m <sup>3</sup> cute*	-	-
Pin-2(3)-ene 80-56-8	-	-	TWA: 20 ppm TWA: 111 mg/m <sup>3</sup>	-	TWA: 25 ppm TWA: 150 mg/m <sup>3</sup> STEL: 50 ppm STEL: 300 mg/m <sup>3</sup>
<b>Chemical name</b>	<b>Luxembourg</b>	<b>Malta</b>	<b>Netherlands</b>	<b>Norway</b>	<b>Poland</b>
Hexylene glycol 107-41-5	-	-	-	Ceiling: 20 ppm Ceiling: 100 mg/m <sup>3</sup>	STEL: 100 mg/m <sup>3</sup> TWA: 50 mg/m <sup>3</sup>
Sodium borate 1303-96-4	-	-	-	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>
Propylene Glycol 57-55-6	-	-	-	TWA: 25 ppm TWA: 79 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 118.5 mg/m <sup>3</sup>	TWA: 100 mg/m <sup>3</sup>
Sodium hydroxide 1310-73-2	-	-	-	Ceiling: 2 mg/m <sup>3</sup>	STEL: 1 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>
Phenyl ether 101-84-8	STEL: 14 mg/m <sup>3</sup> STEL: 2 ppm TWA: 7 mg/m <sup>3</sup> TWA: 1 ppm	STEL: 2 ppm STEL: 14 mg/m <sup>3</sup> TWA: 1 ppm TWA: 7 mg/m <sup>3</sup>	TWA: 7 mg/m <sup>3</sup> STEL: 14 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 7 mg/m <sup>3</sup> STEL: 2 ppm STEL: 14 mg/m <sup>3</sup>	STEL: 14 mg/m <sup>3</sup> TWA: 7 mg/m <sup>3</sup>
p-cresol 106-44-5	-	-	-	-	TWA: 22 mg/m <sup>3</sup> skóra*
Pin-2(3)-ene 80-56-8	-	-	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> H*	-
<b>Chemical name</b>	<b>Portugal</b>	<b>Romania</b>	<b>Slovakia</b>	<b>Slovenia</b>	<b>Spain</b>
Hexylene glycol 107-41-5	Ceiling: 25 ppm	-	-	-	STEL: 25 ppm STEL: 123 mg/m <sup>3</sup>
Sodium borate	TWA: 2 mg/m <sup>3</sup>	-	-	-	TWA: 2 mg/m <sup>3</sup>

1303-96-4	STEL: 6 mg/m <sup>3</sup>				STEL: 6 mg/m <sup>3</sup>
Dimethyl sulfoxide 67-68-5	-	-	-	TWA: 160 mg/m <sup>3</sup> TWA: 50 ppm STEL: 100 ppm STEL: 320 mg/m <sup>3</sup> *	-
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	-	STEL: 2 mg/m <sup>3</sup>
Phenyl ether 101-84-8	TWA: 1 ppm TWA: 7 mg/m <sup>3</sup> STEL: 2 ppm STEL: 14 mg/m <sup>3</sup>	TWA: 0.7 ppm TWA: 5 mg/m <sup>3</sup> STEL: 1.4 ppm STEL: 10 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 7 mg/m <sup>3</sup> Ceiling: 7.1 mg/m <sup>3</sup>	TWA: 1 ppm TWA: 7 mg/m <sup>3</sup> STEL: 14 mg/m <sup>3</sup> STEL: 2 ppm	TWA: 1 ppm TWA: 7.1 mg/m <sup>3</sup> STEL: 2 ppm STEL: 14.2 mg/m <sup>3</sup>
p-cresol 106-44-5	TWA: 5 ppm Cutânea*	-	TWA: 5 ppm TWA: 22 mg/m <sup>3</sup> K*	-	-
Pin-2(3)-ene 80-56-8	TWA: 20 ppm Sensitizer Turpentine and selected Monoterpenes	-	-	-	TWA: 20 ppm TWA: 113 mg/m <sup>3</sup> sensitizer
<b>Chemical name</b>	<b>Sweden</b>		<b>Switzerland</b>		<b>United Kingdom</b>
Hexylene glycol 107-41-5	Bindande KGV: 25 ppm Bindande KGV: 120 mg/m <sup>3</sup>		TWA: 10 ppm TWA: 49 mg/m <sup>3</sup> STEL: 20 ppm STEL: 98 mg/m <sup>3</sup>		TWA: 25 ppm TWA: 123 mg/m <sup>3</sup> STEL: 25 ppm STEL: 123 mg/m <sup>3</sup>
Sodium borate 1303-96-4	NGV: 2 mg/m <sup>3</sup> Vägledande KGV: 5 mg/m <sup>3</sup> *		-		TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>
Dimethyl sulfoxide 67-68-5	NGV: 50 ppm NGV: 150 mg/m <sup>3</sup> Vägledande KGV: 150 ppm Vägledande KGV: 500 mg/m <sup>3</sup> *		TWA: 50 ppm TWA: 160 mg/m <sup>3</sup> STEL: 100 ppm STEL: 320 mg/m <sup>3</sup> H*		-
Propylene Glycol 57-55-6	-		-		TWA: 150 ppm TWA: 474 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> STEL: 450 ppm STEL: 1422 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>
Sodium hydroxide 1310-73-2	NGV: 1 mg/m <sup>3</sup> Bindande KGV: 2 mg/m <sup>3</sup>		TWA: 2 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>		STEL: 2 mg/m <sup>3</sup>
Phenyl ether 101-84-8	NGV: 1 ppm NGV: 7 mg/m <sup>3</sup> Bindande KGV: 2 ppm Bindande KGV: 14 mg/m <sup>3</sup>		TWA: 1 ppm TWA: 7 mg/m <sup>3</sup> STEL: 2 ppm STEL: 14 mg/m <sup>3</sup>		TWA: 1 ppm TWA: 7.1 mg/m <sup>3</sup> STEL: 3 ppm STEL: 21.3 mg/m <sup>3</sup>
p-cresol 106-44-5	NGV: 1 ppm NGV: 4.5 mg/m <sup>3</sup> Vägledande KGV: 2 ppm Vägledande KGV: 9 mg/m <sup>3</sup> H*		-		-
Pin-2(3)-ene 80-56-8	NGV: 25 ppm NGV: 150 mg/m <sup>3</sup> Vägledande KGV: 50 ppm Vägledande KGV: 300 mg/m <sup>3</sup> Sensitizer		-		-

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)** No information available.



**Predicted No Effect Concentration (PNEC)** No information available.

## 8.2. Exposure controls

<b>Engineering controls</b>	Showers Eyewash stations Ventilation systems.
<b>Personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.
<b>Hand protection</b>	Wear suitable gloves. Gloves must conform to standard EN 374.
<b>Skin and body protection</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.
<b>Environmental exposure controls</b>	No special environmental measures are necessary.

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	slightly viscous liquid
<b>Physical state</b>	Liquid
<b>Colour</b>	Clear red
<b>Odour</b>	Mild, characteristic
<b>Odour threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>		No data available
<b>Initial boiling point and boiling range</b>	98 - 100 °C	@ 760 mmHg
<b>Flammability</b>		Not flammable
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>		No data available
<b>Lower flammability or explosive limits</b>		No data available
<b>Flash point</b>	> 93 °C	CC (closed cup)
<b>Autoignition temperature</b>		No data available
<b>Decomposition temperature</b>		No data available
<b>pH</b>	9.5 - 10.5	
<b>pH (as aqueous solution)</b>		No data available
<b>Kinematic viscosity</b>		No data available
<b>Dynamic viscosity</b>		No data available
<b>Water solubility</b>	Soluble in water	No data available
<b>Solubility(ies)</b>		No data available
<b>Partition coefficient</b>		No data available
<b>Vapour pressure</b>		No data available
<b>Relative density</b>	1.025 - 1.035	@20°C
<b>Bulk density</b>		No data available

Liquid Density		No data available
Vapour density	>1	
Particle characteristics		
Particle Size		No data available
Particle Size Distribution		No data available

## 9.2. Other information

### 9.2.1. Information with regards to physical hazard classes

Not applicable

### 9.2.2. Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity None under normal use conditions.

### 10.2. Chemical stability

Stability Stable under normal conditions.

#### Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

### 10.5. Incompatible materials

Incompatible materials Strong oxidising agents. Strong acids. Acid chlorides.

### 10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

##### Product Information

Inhalation	May cause irritation of respiratory tract.
Eye contact	Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	May cause irritation. Prolonged contact may cause redness and irritation. Causes mild skin irritation.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation.

**Acute toxicity**

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral) 39,555.90 mg/kg  
ATEmix (inhalation-dust/mist) 1.11 mg/l

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hexylene glycol	= 3700 mg/kg ( Rat )	= 12300 mg/kg ( Rabbit )	-
Sodium borate	= 3493 mg/kg ( Rat )	> 10000 mg/kg ( Rabbit )	> 2 mg/m <sup>3</sup> ( Rat ) 4 h
Dimethyl sulfoxide	= 28300 mg/kg ( Rat )	= 40000 mg/kg ( Rat )	> 5.33 mg/L ( Rat ) 4 h
Propylene Glycol	= 20 g/kg ( Rat )	= 20800 mg/kg ( Rabbit )	> 317 042 mg/m <sup>3</sup> (Rabbit) 2h
Sodium hydroxide	= 325 mg/kg ( Rat )	= 1350 mg/kg ( Rabbit )	-
Phenyl ether	= 2450 mg/kg ( Rat )	> 7940 mg/kg ( Rabbit )	-
p-cresol	= 207 mg/kg ( Rat )	= 300 mg/kg ( Rabbit )	> 710 mg/m <sup>3</sup> ( Rat ) 1 h
Pin-2(3)-ene	500-2000 mg/kg (Rat)	> 2000 mg/kg ( Rat )	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** May cause skin irritation. Classification based on data available for ingredients.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitisation** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Sodium borate	Repr. 1B

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

### 11.2.2. Other information

**Other adverse effects** No information available.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

**Ecotoxicity** Not considered to be harmful to aquatic life. Large or frequent spills may have hazardous effects on the environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hexylene glycol 107-41-5	-	LC50: 10500 - 11000mg/L (96h, Pimephales promelas) LC50: =10000mg/L (96h, Lepomis macrochirus) LC50: =10700mg/L (96h, Pimephales promelas) LC50: =8690mg/L (96h, Pimephales promelas)	-	EC50: 2700 - 3700mg/L (48h, Daphnia magna)
Dimethyl sulfoxide 67-68-5	-	LC50: 33 - 37g/L (96h, Oncorhynchus mykiss) LC50: =34000mg/L (96h, Pimephales promelas) LC50: =41.7g/L (96h, Cyprinus carpio) LC50: >40g/L (96h, Lepomis macrochirus)	-	-
Propylene Glycol 57-55-6	EC50: 24200 mg/L (72h, Pseudokirchneriella subcapitata)	LC50: 40613 mg/L (96h, Oncorhynchus mykiss)	-	LC50: 18340 mg/L (48h, Ceriodaphnia dubia)
Sodium hydroxide 1310-73-2	-	LC50: =45.4mg/L (96h, Oncorhynchus mykiss)	-	-
Phenyl ether 101-84-8	-	LC50: 4 - 7.9mg/L (96h, Pimephales promelas) LC50: =4mg/L (96h, Pimephales promelas)	-	LC50: 0.11 - 1.1mg/L (48h, Daphnia magna)
p-cresol 106-44-5	-	LC50: 15.9 - 17mg/L (96h, Pimephales promelas) LC50: =19mg/L (96h, Pimephales promelas) LC50: =7.5mg/L (96h, Oncorhynchus mykiss)	-	EC50: =21.1mg/L (48h, Daphnia magna)

Pin-2(3)-ene 80-56-8	-	LC50: =0.303 mg/L (96h, Danio rerio)	-	LC50: 0.475 mg/L (48h, Daphnia magna)
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**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential****Bioaccumulation****Component Information**

Chemical name	Partition coefficient
Hexylene glycol	0.14
Dimethyl sulfoxide	-2.03
Phenyl ether	4.2
p-cresol	1.9
Pin-2(3)-ene	4.1

**12.4. Mobility in soil**

**Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment****PBT and vPvB assessment**

Chemical name	PBT and vPvB assessment
Hexylene glycol 107-41-5	The substance is not PBT / vPvB
Dimethyl sulfoxide 67-68-5	The substance is not PBT / vPvB PBT assessment does not apply
Propylene Glycol 57-55-6	The substance is not PBT / vPvB PBT assessment does not apply
Sodium hydroxide 1310-73-2	The substance is not PBT / vPvB PBT assessment does not apply
Phenyl ether 101-84-8	The substance is not PBT / vPvB
p-cresol 106-44-5	The substance is not PBT / vPvB PBT assessment does not apply
Pin-2(3)-ene 80-56-8	The substance is not PBT / vPvB PBT assessment does not apply

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Do not reuse empty containers.
<b>Waste codes / waste designations according to EWC / AVV</b>	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

<b>IMDG</b>	Not regulated
<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2 EPNM</b>	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	None
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No information available

<b>RID</b>	Not regulated
<b>14.1 UN number</b>	Not regulated
<b>14.2 EPNR</b>	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	None

<b>ADR</b>	Not regulated
<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2 UN proper shipping name</b>	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	None

<b>IATA</b>	Not regulated
<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2 EPNI</b>	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	None
<b>Note:</b>	None

## SECTION 15: Regulatory information

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

#### National regulations

##### France

##### Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
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Hexylene glycol 107-41-5	RG 84
Dimethyl sulfoxide 67-68-5	RG 84
Propylene Glycol 57-55-6	RG 84

**Germany**

**Water hazard class (WGK)** slightly hazardous to water (WGK 1)

**Netherlands**

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Carcinogens	Netherlands - List of Reproductive Toxins
Sodium borate	-	-	Fertility Category 1B Development Category 1B

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorisations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Hexylene glycol - 107-41-5	75.	
Sodium borate - 1303-96-4	30. 75.	
Dimethyl sulfoxide - 67-68-5	75.	
Sodium hydroxide - 1310-73-2	75.	
p-cresol - 106-44-5	75.	

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**Plant protection products directive (91/414/EEC)****EU - Biocidal Product Regulation ((EU) 528/2012)**

Chemical name	EU - Biocidal Product Regulation ((EU) 528/2012)
Sodium borate - 1303-96-4	Product type 8 (details in Commission Directive 2012/40/EU and Commission Implementing Decision 2017/2334/EU) 8 - Wood preservatives

**International Inventories**

Contact supplier for inventory compliance status

**15.2. Chemical safety assessment**

## Chemical Safety Report

No information available

**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H226 - Flammable liquid and vapour  
 H290 - May be corrosive to metals  
 H301 - Toxic if swallowed  
 H302 - Harmful if swallowed  
 H304 - May be fatal if swallowed and enters airways  
 H311 - Toxic in contact with skin  
 H314 - Causes severe skin burns and eye damage  
 H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H319 - Causes serious eye irritation  
 H360FD - May damage fertility. May damage the unborn child  
 H400 - Very toxic to aquatic life  
 H410 - Very toxic to aquatic life with long lasting effects  
 H412 - Harmful to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

**Key literature references and sources for data used to compile the SDS**

U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
 European Chemicals Agency (ECHA) (ECHA\_API)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act



U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

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**End of Safety Data Sheet**