

Safety Data Sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing Date: June 9, 2021

Version No.: 1.0

Revision: June 9, 2021

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

• 1.1 Product identifier

Trade name: Diffuser balsam tree

Registration number: 00065

• UFI number: VK50-U0CK-7001-NAG5

Other means of identification: No available data.

1.2 Relevant identified uses of the substance or mixture and uses advised against on

Application of the substance/ mixture: Air fresher.

• Uses advised against: No available data.

• Reason why uses advised against: No available data.

• 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Email:

• Only Representative/other EU contact point: No information available.

Further information obtainable from:

• 1.4 Emergency telephone number

Country	Official advisory body	Address	Emergency number	Remark
Austria	Vergiftungsinformationszentrale (Poisons Information Centre)	Stubenring 6 1010 Wien	+43 1 406 43 43	
Belgium	Centre Anti-Poisons/ Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)
Bulgaria	Национален токсикологичен информационен център (National Toxicological Information Centre) Многопрофилна болница за активно лечение и специална медицина "Н.И.Пирогов" (National Clinical Toxicology Centre), Emergency Medical Institute "Pirogov"	21 Tottleben Boulevard 1606 SOFIA	+359 2 9154 409	
Croatia	Centar za kontrolu otrovanja Institut za medicinska	Ksaverska Cesta 2 p.p. 291	+385 1 234 8342	

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	<i>istraživanja i medicinu rada</i>	10000 Zagreb		
Cyprus	<i>Κέντρο Δηλητηριάσεων</i>		1401	<i>Operating hours 24 hours / 24 hours, 7 days a week</i>
Czech Republic	<i>Toxikologické informační středisko Klinika pracovního lékařství VFN a l. LF UK</i>	<i>Na Bojišti 1 120 00 Praha 2</i>	+420 224 919 293 +420 224 915 402	
Denmark	<i>Gifflinjen Bispebjerg Hospital</i>	<i>Bispebjerg Bakke 23 2400 København NV</i>	+45 82 12 12 12	
Estonia	<i>Mürgistusteabekeskus</i>	<i>Gonsiori 29 15027 Tallinn</i>	16662 +372 626 93 90	
Finland	<i>Myrkytystietokeskus</i>	<i>Stenbäckinkatu 9 PO BOX 100 29 Helsinki</i>	+358 9 471 977 +358 9 4711	
France	<i>Centre Antipoison et de Toxicovigilance de Paris Hôpital Fernand Widal</i>	<i>200 rue du Faubourg Saint-Denis 75475 Paris Cedex 10</i>	+33 1 40 05 48 48	
France	<i>Centre Antipoison et de Toxicovigilance de Marseille Hôpital Sainte Marguerite</i>	<i>270 boulevard de Sainte Marguerite 13274 Marseille Cedex 09</i>	+33 4 91 75 25 25	
Germany	<i>Giftnotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik rechts der Isar der Technischen Universität München</i>	<i>Ismaninger Straße 22 81675 München</i>	+49 (0) 89 19240	
Germany	<i>Giftnotruf der Charité CBF, Haus VIII (Wirtschaftsgebäude), UG</i>	<i>Hindenburgdamm 30 12203 Berlin</i>	+49 (0) 30 19240	
Greece	<i>Poisons Information Centre Children's Hospital P&A Kyriakou</i>	<i>11762 Athens</i>	+30 2 10 779 3777	
Hungary	<i>Országos Kémiai Biztonsági Intézet Egészségügyi Toxikológiai Tájékoztató Szolgálat</i>	<i>Nagyvárad tér 2. 1437 Budapest, Pf. 839 1097 Budapest</i>	+36 80 20 11 99	
Iceland	<i>Eitrunarmiðstöð Landspítali</i>	<i>Fossvogi 108 Reykjavik</i>	+354 543 22 22	
Ireland	<i>National Poisons Information Centre Beaumont Hospital</i>	<i>PO Box 1297 Beaumont Road 9 Dublin</i>	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Italy	<i>Centro Antiveleni Dipartimento di Tossicologia Clinica, Università Cattolica del Sacro Cuore</i>	<i>Largo Agostino Gemelli 8 168 Roma</i>	+39 06 305 4343	
Latvia	<i>Valsts Toksikoloģijas centrs,</i>	<i>Hipokrāta 2</i>	+371 67 04 24 73	

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	<i>Saindēšanās un zāļu informācijas centrs</i>	<i>1038 Rīga</i>		
<i>Lithuania</i>	<i>Apsinuodijimų informacijos biuras</i>	<i>Birutės g. 56 8110 Vilnius</i>	<i>+370 5 236 20 52 +370 687 53378</i>	
<i>Luxembourg</i>	<i>Centre Anti-Poisons/ Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid</i>	<i>Rue Bruyn 1 1120 Bruxelles/Brussel</i>	<i>+352 8002 5500</i>	
<i>Malta</i>	<i>Medicines & Poisons Info Office</i>	<i>Mater Dei Hospital MSD Msida</i>	<i>+356 2545 6504</i>	
<i>Netherlands</i>	<i>Nationaal Vergiftigingen Informatie Centrum Universitair Medisch Centrum Utrecht, Het Nationaal Vergiftigingen Informatie Centrum (NVIC) informeert (dieren-) artsen, apothekers en andere professionele hulpverleners over de mogelijke gezondheidseffecten en behandelingsmogelijkheden bij vergiftigingen. Het NVIC is hiervoor dag en nacht bereikbaar, zowel telefonisch als via internet</i>	<i>Huispostnummer B.00.118 PO Box 85500 3508 GA Utrecht</i>	<i>+31 30 274 88 88</i>	<i>Only for the purpose of informing medical personnel in cases of acute intoxications</i>
<i>Norway</i>	<i>Giftinformasjonen Helsedirektoratet</i>	<i>P.O. Box 7000 St. Olavs Plass 130 Oslo</i>	<i>+47 22 591300</i>	
<i>Poland</i>	<i>National Poisons Information Centre The Nofer Institute of Occupational Medicine (Łódź)</i>	<i>ul. Teresy 8 P.O. BOX 199 90950 Łódź</i>	<i>+48 42 63 14 724</i>	
<i>Portugal</i>	<i>Centro de Informação Antivenenos Instituto Nacional de Emergência Médica</i>	<i>Rua Almirante Barroso, 36 1000-013 Lisboa</i>	<i>+351 808 250 143</i>	
<i>Romania</i>	<i>Department of Clinical Toxicology Spitalul de Urgenta Floreasca</i>	<i>Calea Floreasca Bucuresti</i>	<i>+40 21 230 8000</i>	
<i>Serbia</i>	<i>Nacionalni centar za kontrolu trovanja - VMA</i>	<i>Crnotravska 17 11000 Beograd</i>	<i>+381 11 360 84 40 (24h) +381 11 3672 187</i>	
<i>Slovakia</i>	<i>Národné toxikologické informačné centrum Univerzitná nemocnica Bratislava, pracovisko Kramáre, Klinika pracovného lekárstva a toxikológie</i>	<i>Limbová 5 833 05 Bratislava</i>	<i>+421 2 54 77 41 66</i>	
<i>Slovenia</i>	<i>Center za kliničnotoksikologijo in</i>	<i>Zaloška cesta 7</i>	<i>+386 41 650 500</i>	

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	<i>farmakologijoInternaklinika, UKCL</i>	<i>1525 Ljubljana</i>		
<i>Spain</i>	<i>Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Sevilla</i>	<i>Carretera de San Jerónimo Km 0,4 41080 Sevilla</i>	<i>+34 91 562 04 20</i>	<i>(Toxicological emergencies only). Information in Spanish (24/7)</i>
<i>Spain</i>	<i>Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Madrid</i>	<i>C/José Echegaray n°4 28232 Las Rozas de Madrid</i>	<i>+34 91 562 04 20</i>	<i>(Toxicological emergencies only). Information in Spanish (24/7)</i>
<i>Sweden</i>	<i>Giftinformationscentralen</i>	<i>Box 60 500 171 76 Stockholm</i>	<i>112 – begär Giftinformation +46 10 456 6700 (Från utlandet)</i>	
<i>Switzerland</i>	<i>Tox Info Suisse</i>	<i>Freiestrasse 16 8032 Zürich</i>	<i>145</i>	<i>(from abroad: +41 44 251 51 51) non urgent inquiry: +41 44 251 66 66</i>
<i>United Kingdom</i>	<i>National Poisons Information Service (Belfast Centre) Royal Victoria Hospital</i>	<i>Grosvenor Road BT12 6BA Belfast</i>	<i>0344 892 0111</i>	<i>Only for the purpose of informing medical personnel in cases of acute intoxications</i>

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- 2.1.1 Classification according to regulation (EC) 1272/2008:

Regulation (EC) No 1272/2008 [CLP]	Classification procedure
<i>Skin Sens. 1B, H317</i>	<i>Calculation method</i>
<i>Aquatic Chronic 3, H412</i>	<i>Calculation method</i>

- 2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

- 2.2 Label elements
- Labeling according to Regulation (EC) No 1272/2008: The product is labelled according to CLP Regulation.
- Hazard pictograms:



GHS07

- Signal word: Warning
- Hazard-determining components of labelling: 3,7-Dimethylocta-1,6-dien-3-ol.
- Hazard statements:
H317 May cause an allergic skin reaction

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H412 Harmful to aquatic life with long lasting effects

• Precautionary statement:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P261 Avoid breathing vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

• Supplemental label elements: Not applicable**• 2.3 Other hazards**None ingredients ($\geq 0.1\%$) meets the criteria for PBT/vPvB in accordance with Annex XIII.

1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (CAS:1506-02-1) identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

SECTION 3: Composition/information on ingredients**• 3.1 Substance**

Not applicable

• 3.2 Mixtures**• Description of the mixture:** Diffuser balsam tree

Ingredients:						
Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Dipropylene glycol monomethyl ether	34590-94-8	-	252-104-2	85	None	-
3,7-Dimethylocta-1,6-dien-3-ol	78-70-6	603-235-00-2	201-134-4	0.375-1.5	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	-
Benzyl acetate	140-11-4	-	205-399-7	0.375-1.5	Aquatic Chronic 3, H412	-
2-Phenylethanol	60-12-8	-	200-456-2	0.375-1.5	Acute Tox. 4, H302 Eye Irrit. 2, H319	ATE (oral)= 1790 mg/kg
2-(4-Methylcyclohex-3-en-1-yl)propan-2-ol	98-55-5	-	202-680-6	0.15-0.375	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-
3a,4,5,6,7,7a-Hexahydro-4,7-methanoinden-6-yl acetate	5413-60-5	-	226-501-6	0.15-0.375	Aquatic Chronic 3, H412	-
2-Benzylideneheptanal	122-40-7	-	204-541-5	0.15-0.375	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-
2-(4-Methylcyclohex-3-en-1-yl)Propan-2-ol	8000-41-7	-	232-268-1	<0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-
4-tert-Butylcyclohexyl	32210-23-4	-	250-954-9	<0.15	Skin Sens. 1B, H317	-

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acetate						
1-Methyl-1-(4-methyl cyclohex-3-en-1-yl)ethyl acetate	8007-35-0	-	232-357-5	<0.15	Aquatic Chronic 2, H411	-
1,5-Dimethyl-1-vinylhex-4-en-1-yl acetate	115-95-7	-	204-116-4	<0.15	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	-
(R)-p-Mentha-1,8-diene	5989-27-5	601-029-00-7	227-813-5	<0.15	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Skin Irrit. 2, H315: C _≥ 20% M=1 M(Chronic)=1
1-Cedr-8-en-9-ylethanone	32388-55-9	-	251-020-3	<0.15	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M=1 M(Chronic)=1
2,4-Dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6	-	268-264-1	<0.15	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-
4-Allyl-2-methoxyphenol	97-53-0	-	202-589-1	<0.15	Skin Sens. 1B, H317 Eye Irrit. 2, H319	-
1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	1506-02-1	-	216-133-4	<0.15	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE(oral)= 920mg/kg M=1 M(Chronic)=1
Acetic acid, 2-phenylethyl ester	103-45-7	-	203-113-5	<0.15	Eye Dam. 1, H318	-
5-Heptyloxolan 2-one	104-67-6	-	203-225-4	<0.15	Aquatic Chronic 3, H412	-
Ethyl hexanoate	123-66-0	-	204-640-3	<0.15	Flam. Liq. 3, H226	-
2-tert-butylcyclohexyl acetate	88-41-5	-	201-828-7	<0.15	Aquatic Chronic 2, H411	-
Ethyl butyrate	105-54-4	-	203-306-4	<0.15	Flam. Liq. 3, H226	-
2-(5-Methyl-5-vinyl tetrahydrofuran-2-yl)propan-2-ol	1365-19-1	-	215-723-9	<0.15	Acute Tox. 4, H302 Eye Irrit. 2, H319	ATE (oral)= 500 mg/kg
3-Phenylacrylaldehyde	104-55-2	-	203-213-9	<0.15	Acute Tox. 4, H312 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319	ATE(dermal)= 1100mg/kg
4-(2,6,6-Trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	14901-07-6	-	238-969-9	<0.15	Aquatic Chronic 2, H411	-
1-methoxy-4-prop-1-en-1-ylbenzene	104-46-1	-	203-205-5	<0.15	Skin Sens. 1, H317	-
1,7,7-Trimetilbicio	464-49-3	-	207-355-2	<0.15	Flam. Sol. 2, H228	-

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[2.2.1]heptan-2-ona					Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	
3,7-Dimethyl-2,6-octadien-1-ol	106-24-1	603-241-00-5	203-377-1	<0.15	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318	-
1,1-Dimethyl-2-phenylethyl acetate	151-05-3	-	205-781-3	<0.15	Skin Irrit. 2, H315 Aquatic Chronic 3, H412	-
(Ethoxymethoxy) cyclododecane	58567-11-6	-	261-332-1	<0.15	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-
2-Methoxy-4-prop-1-en-1-ylphenyl acetate	93-29-8	-	202-236-1	<0.15	None	-
2,6,6-Trimethylbicyclo(3.1.1)hept-2-ene	80-56-8	-	201-291-9	<0.015	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M=1 M(Chronic)=1
6,6-Dimethyl-2-methylenebicyclo(3.1.1)heptane	127-91-3	-	204-872-5	<0.015	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M=1 M(Chronic)=1
3-Methylbutyl acetate	123-92-2	607-130-00-2	204-662-3	<0.015	Flam. Liq. 3, H226 EUH066	-
Ethyl alcohol	64-17-5	603-002-00-5	200-578-6	<0.00015	Flam. Liq. 2, H225	-

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****General advice:** If medical advice is needed, have product container or label at hand.**After inhalation:** Supply with fresh air. Get medical attention if you feel unwell.**After skin contact:** Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.**After eye contact:** Rinse cautiously with water for several minutes. If eye irritation occurs: Get medical advice/attention.**After swallowing:** Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.**4.2 Most important symptoms and effects, both acute and delayed:** May cause an allergic skin reaction.**4.3 Indication of any immediate medical attention and special treatment needed:** Treat according to symptom, there is not known specific medicine.

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SECTION 5: Fire-fighting measures

- **5.1 Extinguishing media**
 - **Suitable extinguishing agents:** Use CO₂, chemical powder, water spray or alcohol resistant foam to extinguish.
 - **Unsuitable extinguishing media:** Water with full jet.
 - **5.2 Special hazards arising from the substance or mixture:** May produce allergic / irritant vapor in air under fire.
 - **5.3 Advice for firefighters**
- Protective equipment:** Wear self-contained breathing apparatus for firefighting.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - **6.1.1 For non-emergency personnel**
- Protective equipment:** Protective gloves and respiration protection.
- Emergency procedures:** Evacuate immediately; Avoid breathing vapor; Avoid contact with skin and eyes; Avoid release to the environment.
- **6.1.2 For emergency responders**
- Personal protective equipment:** Protective gloves and respiration protection.
- **6.2 Environmental precautions:**
- Prevent further leakage or spillage if safe to do so; Prevent spillage from entering drains, sewer, basement or confined areas; if the spillage contaminates rivers, lakes or drains inform respective authorities.
- **6.3 Methods and material for containment and cleaning up:**
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust); Dispose contaminated material as waste according to section 13.
- **6.4 Reference to other sections:**
- See section 7 for information on safe handling; See section 8 for information on personal protection equipment; See section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:**
- Ensure adequate ventilation at workplace; Wear protective gloves; Avoid breathing vapor; Avoid contact with skin and eyes; Avoid release to the environment.
- **Information about fire and explosion protection:** Normal measures for preventive fire protection.
 - **7.2 Conditions for safe storage, including any non-compatibility**
 - **Requirements to be met by storerooms and receptacles:** Store in a cool and well-ventilated place.
 - **Information about storage in one common storage facility:** Keep out of reach of children.
 - **Further information about storage conditions:** Store locked up.
 - **Storage class:** 12.
 - **7.3 Specific end use(s):** See section 1.2.

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SECTION 8: Exposure controls/personal protection

• **8.1 Control parameters**

• **Ingredients with limit values that require monitoring at the workplace:**

Country	Limit value - Eight hours	Limit value - Short term
34590-94-8 Dipropylene glycol monomethyl ether		
Austria	50ppm; 307 mg/m ³	100ppm; 614 mg/m ³
Belgium	50ppm; 308 mg/m ³	-
Denmark	50ppm; 303 mg/m ³	100ppm; 600 mg/m ³
European Union	50ppm; 308 mg/m ³	-
Finland	50ppm; 310 mg/m ³	-
France	50ppm; 308 mg/m ³ Restrictive statutory limit values Skin	-
Germany (DFG)	50ppm; 310 mg/m ³ Inhalable aerosol and vapour	50ppm; 310 mg/m ³ Inhalable aerosol and vapour; 15 minutes reference period
Germany (AGS)	50ppm; 310 mg/m ³ Inhalable aerosol and vapour	50ppm; 310 mg/m ³ Inhalable aerosol and vapour; 15 minutes reference period
Hungary	308 mg/m ³	308 mg/m ³
Ireland	50ppm; 308 mg/m ³	-
Italy	50ppm; 308 mg/m ³ Skin	-
Latvia	50ppm; 308 mg/m ³	-
Poland	240 mg/m ³	280 mg/m ³
Romania	50ppm; 308 mg/m ³	-
Spain	50ppm; 308 mg/m ³ Skin	-
Sweden	50ppm; 300 mg/m ³	75ppm; 450 mg/m ³ 15 minutes average value
The Netherlands	300 mg/m ³	-
United Kingdom	50ppm; 308 mg/m ³	-
140-11-4 Benzyl acetate		
Belgium	10ppm; 62mg/m ³	-
Denmark	10ppm; 61mg/m ³	20ppm; 122mg/m ³
Ireland	10ppm	-
Latvia	5mg/m ³	-
Romania	8ppm; 50mg/m ³	13ppm; 80mg/m ³ 15 minutes average value
Spain	10ppm; 62mg/m ³	-
5989-27-5 (R)-p-Mentha-1,8-diene		
Finland	25ppm; 140mg/m ³	50ppm; 280mg/m ³ 15 minutes average value
Germany (AGS)	5ppm; 28mg/m ³ Skin	20ppm; 110mg/m ³ Skin ; 15 minutes reference period
Germany (DFG)	5ppm; 28mg/m ³ Skin	20ppm; 112mg/m ³ Skin ; 15 minutes average value
Spain	30ppm; 168mg/m ³ Skin	-
80-56-8 2,6,6-Trimethylbicyclo(3.1.1)hept-2-ene		
Belgium	20ppm;	-
Sweden	25ppm; 150mg/m ³	50ppm; 300mg/m ³ 15 minutes average value
127-91-3 6,6-Dimethyl-2-methylene-bicyclo(3.1.1)heptane		
Belgium	20ppm	-

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Denmark	25ppm; 140mg/m ³	50ppm; 280mg/m ³
Sweden	25ppm; 150mg/m ³	50ppm; 300mg/m ³ 15 minutes average value
123-92-2 3-Methylbutyl acetate		
Belgium	50ppm; 270mg/m ³	100ppm; 540mg/m ³
Denmark	50ppm; 266mg/m ³	100ppm; 532mg/m ³
European Union	50ppm; 270mg/m ³	100ppm; 540mg/m ³ 15 minutes average value
Finland	50ppm; 270mg/m ³	100ppm; 540mg/m ³ 15 minutes average value
France	50ppm; 270mg/m ³	100ppm; 540mg/m ³
Germany (AGS)	50ppm; 270mg/m ³	50ppm; 270mg/m ³ 15 minutes average value
Germany (DFG)	50ppm; 270mg/m ³	50ppm; 270mg/m ³ STV 15 minutes average value
Hungary	270mg/m ³	540mg/m ³
Ireland	50ppm; 260mg/m ³	100ppm; 520mg/m ³ 15 minutes reference period
Latvia	50ppm; 270mg/m ³	100ppm; 540mg/m ³ 15 minutes average value
Poland	250mg/m ³	500mg/m ³
Romania	50ppm; 270mg/m ³	100ppm; 540mg/m ³ 15 minutes average value
Spain	50ppm; 270mg/m ³	100ppm; 540mg/m ³
Sweden	100ppm; 500mg/m ³	150ppm; 800mg/m ³
The Netherlands	-	530mg/m ³
United Kingdom	50ppm; 270mg/m ³	100ppm; 541mg/m ³
64-17-5 Ethyl alcohol		
Austria	1000ppm; 1900 mg/m ³	2000ppm; 3800 mg/m ³
Belgium	1000ppm; 1907 mg/m ³	-
Denmark	1000ppm; 1900 mg/m ³	2000ppm; 3800 mg/m ³
Finland	1000ppm; 1900 mg/m ³	1300ppm; 2500 mg/m ³ 15 minutes average value
France	1000ppm; 1900 mg/m ³	5000ppm; 9500 mg/m ³
Germany (AGS)	200ppm; 380 mg/m ³	800ppm; 1520mg/m ³ 15 minutes average value
Germany (DFG)	200ppm; 380 mg/m ³	800ppm; 1520mg/m ³ 15 minutes average value
Hungary	1900 mg/m ³	7600 mg/m ³
Ireland	-	1000ppm 15 minutes reference period
Latvia	1000 mg/m ³	-
Poland	1900 mg/m ³	-
Romania	1000ppm; 1900 mg/m ³	5000ppm; 9500 mg/m ³ 15 minutes average value
Spain	-	1000ppm; 1910 mg/m ³
Sweden	500ppm; 1000 mg/m ³	1000ppm; 1900mg/m ³ 15 minutes average value
The Netherlands	260 mg/m ³	1900 mg/m ³
United Kingdom	1000ppm; 1900 mg/m ³	-

• DNELs:

DNEL type	DNEL worker value	DNEL consumer value
34590-94-8 Dipropylene glycol monomethyl ether		
Systemic effects	Long-term, inhalation exposure	308 mg/m ³
	Long-term, dermal exposure	283 mg/kg bw/day
	Long-term, oral exposure	-
78-70-6 3,7-Dimethylocta-1,6-dien-3-ol		

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Systemic effects	Long-term, inhalation exposure	2.8 mg/m ³	700 µg/m ³
	Acute /short term, inhalation exposure	16.5 mg/m ³	4.1 mg/m ³
	Long-term, dermal exposure	2.5 mg/kg bw/day	1.25 mg/kg bw/day
	Acute /short term, dermal exposure	5 mg/kg bw/day	2.5 mg/kg bw/day
	Long-term, oral exposure	-	200 µg/kg bw/day
	Acute /short term, oral exposure	-	1.2 mg/kg bw/day
Local effects	Long-term, dermal exposure	3 mg/cm ²	1.5 mg/cm ²
	Acute /short term, dermal exposure	3 mg/cm ²	1.5 mg/cm ²
5989-27-5 (R)-p-Mentha-1,8-diene			
Systemic effects	Long-term, inhalation exposure	66.7 mg/m ³	16.6 mg/m ³
	Long-term, dermal exposure	9.5 mg/kg bw/day	4.8 mg/kg bw/day
	Long-term, oral exposure	-	4.8 mg/kg bw/day
64-17-5 Ethyl alcohol			
Systemic effects	Long-term, inhalation exposure	950 mg/m ³	114 mg/m ³
	Long-term, dermal exposure	343 mg/kg bw/day	206 mg/kg bw/day
	Long-term, oral exposure	-	87 mg/kg bw/day
Local effects	Acute /short term, inhalation exposure	1900 mg/m ³	950 mg/m ³

• PNECs:

PNEC type	Value
34590-94-8 Dipropylene glycol monomethyl ether	
Freshwater	19 mg/L
Intermittent releases (freshwater)	190 mg/L
Marine water	1.9 mg/L
Sewage treatment plant (STP)	4.168 g/L
Sediment (freshwater)	70.2 mg/kg sediment dw
Sediment (marine water)	7.02 mg/kg sediment dw
78-70-6 3,7-Dimethylocta-1,6-dien-3-ol	
Freshwater	200 µg/L
Intermittent releases (freshwater)	2 mg/L
Marine water	20 µg/L
Sewage treatment plant (STP)	10 mg/L
Sediment (freshwater)	2.22 mg/kg sediment dw
Sediment (marine water)	222 µg/kg sediment dw
5989-27-5 (R)-p-Mentha-1,8-diene	
Freshwater	14 µg/L
Marine water	1.4 µg/L
Sewage treatment plant (STP)	1.8 mg/L
Sediment (freshwater)	3.85 mg/kg sediment dw
Sediment (marine water)	385 µg/kg sediment dw
64-17-5 Ethyl alcohol	
Freshwater	960 µg/L
Intermittent releases (freshwater)	2.75 mg/L
Marine water	790 µg/L

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Sewage treatment plant (STP)	580 mg/L
Sediment (freshwater)	3.6 mg/kg sediment dw
Sediment (marine water)	2.9 mg/kg sediment dw

• **Additional information:** The lists valid during the marking were used as basis.

• 8.2 Exposure controls

• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

• **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice; Wash hands and face before breaks and at the end of work; Take off contaminated clothing and wash it before reuse. See section 7 for information about design of technical facilities.

• **Personal protective equipment**

• **Eye and face protection:**



Safety glasses

Protective goggles with side-shields.

• **Skin protection**

• **Hand protection:**



Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.3mm; breakthrough times up to 480 minutes).

• **Other skin protection:**

Gauntlets, boots, bodysuit are recommended.

• **Respiration protection:**

Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.

• **Thermal hazards:**

The gauntlets, boots, bodysuit and other personal protective equipment must be flame retardant and no heat-conducting.

• **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

• Physical state	Liquid
• Color	Transparent yellow
• Odor & Odor threshold	Balsam tree
• Melting point/freezing point (or softening point/range)	Not determined
• Boiling point or initial boiling point and boiling range	180°C-190°C
• Flammability	Not flammable liquid.
• Lower and upper explosion limit	Lower explosion limit: 1.1 vol.%(Dipropylene glycol monomethyl ether) Upper explosion limit: 14 vol.%(Dipropylene glycol monomethyl ether)
• Flash point	77°C (closed cup)

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Trade Name: Diffuser balsam tree	
· Auto-ignition temperature	207°C(Dipropylene glycol monomethyl ether)
· Decomposition temperature	Not determined
· pH	6-8 at 20°C
· Kinematic viscosity (mm²/s)	Not determined
· Solubility	Soluble in water
· Partition coefficient n-octanol/water (log value)	Not determined
· Vapor pressure	Not determined
· Density and/or relative density	Not determined
· Relative vapor density	Not determined
· Particle characteristics	Not applicable
9.2 Other information	
9.2.1 Information with regard to physical hazard classes:	
· Explosives	Not applicable
· Flammable gases	Not applicable
· Aerosols	Not applicable
· Oxidising gases	Not applicable
· Gases under pressure	Not applicable
· Flammable liquids	Not determined
· Flammable solids	Not applicable
· Self-reactive substances and mixtures	Not applicable
· Pyrophoric liquids	Not applicable
· Pyrophoric solids	Not applicable
· Self-heating substances and mixtures	Not applicable
· Substances and mixtures, which emit flammable gases in contact with water	Not applicable
· Oxidizing liquids	Not applicable
· Oxidizing solids	Not applicable
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable
· Desensitised explosives	Not applicable
9.2.2 Other safety characteristics	
· Mechanical sensitivity	Not applicable
· Self-accelerating polymerisation temperature	Not applicable
· Formation of explosible dust/air mixtures	Not applicable
· Acid/alkaline reserve	Not determined
· Evaporation rate	Not determined
· Miscibility	Not determined
· Conductivity	Not determined
· Corrosiveness	Not determined
· Gas group	Not applicable
· Redox potential	Not applicable
· Radical formation potential	Not applicable
· Photocatalytic properties	Not applicable

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• Other physical and chemical parameters

Not determined

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** The product is no-reactive under normal conditions of use, storage and transport.
- **10.2 Chemical stability:** Under storage at normal ambient temperatures, the product is stable.
- **10.3 Possibility of hazardous reactions:** No known hazardous reaction.
- **10.4 Conditions to avoid:** High temperature and flame.
- **10.5 Incompatible materials:** Strong acids, strong bases, strong oxidizing agents and flammable substance.
- **10.6 Hazardous decomposition products:** Does not decompose when used for intended uses.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

ATE _{mix} (oral)	:	>2000mg/kg
ATE _{mix} (dermal)	:	>2000mg/kg
ATE _{mix} (inhal.)	:	>20mg/l (vapor)

LD50/LC50 values relevant for classification:

34590-94-8 Dipropylene glycol monomethyl ether		
Rat	LD50-oral	5.4mL/kg
Rabbit	LD50-skin	10mL/kg
78-70-6 3,7-Dimethylocta-1,6-dien-3-ol		
Rabbit	LD50-skin	5610mg/kg
Rat	LD50-oral	2790mg /kg
	LD50-skin	5610mg/kg
Mouse	LD50-oral	3000mg/kg
140-11-4 Benzyl acetate		
Guinea pig	LD50-oral	2200mg/kg
Rat	LD50-oral	2490mg/kg
Rabbit	LD50-skin	>5000mg/kg
	LD50-oral	2200mg/kg
60-12-8 2-Phenylethanol		
Rat	LD50-oral	1790mg/kg
	LC50-inhalation	> 500mg/m ³
122-40-7 2-Benzylideneheptanal		
Rat	LD50-oral	3730mg/kg
5989-27-5 (R)-p-Mentha-1,8-diene		
Rabbit	LD50-skin	> 5000mg/kg
Rat	LD50-oral	4400mg /kg

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Mouse	LD50-oral	5600mg/kg
64-17-5	Ethyl alcohol	
Rat	LD50-oral	7060mg/kg
	LC50-inhalation	20000ppm/10H
Rabbit	LD50-oral	6300 mg/kg
Guinea pig	LD50-oral	5560mg/kg
Mouse	LD50-oral	3450 mg/kg
	LC50-inhalation	39000 mg/m ³ /4H
Remark: All the above data are from literature.		

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eyes damage/ irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization:** May cause an allergic skin reaction.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **Summary of evaluation of the CMR properties:** Not classified as CMR product.
- **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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties:

1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (CAS:1506-02-1) is considered to have endocrine-disrupting properties with respect to humans as it meets the criteria set out in section A of Regulation (EU) No 2017/2100.

1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (CAS:1506-02-1) can affect steroidogenesis in vitro using the H295R cell line.

11.2.2 Other information: No known other relevant information on adverse health effects.

SECTION 12: Ecological information

12.1 Toxicity

LC50/EC50/NOEC values relevant for classification:	
34590-94-8 Dipropylene glycol monomethyl ether	
Short-term toxicity to fish	LC50 (4 days) 1-10 g/L
Short-term toxicity to aquatic invertebrates	LC50 (4 days) 1 g/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 969 mg/L NOEC (72 h) 969 mg/L
78-70-6 3,7-Dimethylocta-1,6-dien-3-ol	
Short-term toxicity to fish	LC50 (4 days) 27.8 mg/L

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Short-term toxicity to aquatic invertebrates	EC50 (48 h) 59 mg/L NOEC (48 h) 25 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (4 days) 88.3 - 156.7 mg/L
Toxicity to microorganisms	EC50 (3 h) 100 mg/L
140-11-4 Benzyl acetate	
Short-term toxicity to fish	LC50 (4 days) 4 mg/L
Long-term toxicity to fish	NOEC (28 days) 920 µg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 17 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 92 - 110 mg/L
Toxicity to microorganisms	EC50 (3 h) 855 mg/L
122-40-7 2-Benzylideneheptanal	
Long-term toxicity to aquatic invertebrates	NOEC (21 days) 41 µg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 1.5 - 2.3 mg/L NOEC (72 h) 210 - 660 µg/L
5989-27-5 (R)-p-Mentha-1,8-diene	
Short-term toxicity to fish	LC50 (4 days) 460 - 720 µg/L EC50 (4 days) 688 - 702 µg/L
Long-term toxicity to fish	NOEC (28 days) 80 µg/L
Short-term toxicity to aquatic invertebrates	EC50 (24 h) 840 µg/L
Long-term toxicity to aquatic invertebrates	NOEC (21 days) 50 - 80 µg/L EC50 (21 days) 188 µg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 214 - 320 µg/L NOEC (48 h) 90 µg/L
64-17-5 Ethyl alcohol	
Short-term toxicity to fish	LC50 (4 days) 14.2 - 15.4 g/L EC50 (4 days) 12.7 - 12.9 g/L
Long-term toxicity to fish	NOEC (5 days) 250 - 1 000 mg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 10 g/L LC50 (48 h) 5.012 g/L
Long-term toxicity to aquatic invertebrates	NOEC (10 days) 2 - 9.6 mg/L LC50 (48 h) 9.248 g/L
Toxicity to aquatic algae and cyanobacteria	EC50 (4 days) 675 - 22 000 mg/L
Toxicity to microorganisms	EC50 (4 h) 5.8 g/L

• 12.2 Persistence and degradability

34590-94-8	Dipropylene glycol monomethyl ether	Readily biodegradable in water
78-70-6	3,7-Dimethylocta-1,6-dien-3-ol	Readily biodegradable in water
140-11-4	Benzyl acetate	Readily biodegradable in water
122-40-7	2-Benzylideneheptanal	Readily biodegradable in water
5989-27-5	(R)-p-Mentha-1,8-diene	Readily biodegradable in water
64-17-5	Ethyl alcohol	BOD ₅ =1.067 - 1.236 g O ₂ /g test material; COD=1.99 g O ₂ /g test material; Readily biodegradable in water

• 12.3 Bio-accumulative potential

34590-94-8	Dipropylene glycol monomethyl ether	Log Pow = 0.004-0.35 at 25 °C and pH 7 - 7.7
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78-70-6	3,7-Dimethylocta-1,6-dien-3-ol	Log Pow = 2.84 - 2.9 at 20 - 25 °C and pH 7
140-11-4	Benzyl acetate	Log Pow = 1.96 at 25 °C and pH 7
122-40-7	2-Benzylideneheptanal	Log Pow = 2.498 at 25 °C and pH 6.2
5989-27-5	(R)-p-Mentha-1,8-diene	Log Pow = 4.38 at 37 °C and pH 7.2
64-17-5	Ethyl alcohol	Log Pow = -0.77 - -0.3 at 24 - 25 °C and pH 7 - 7.4

• **12.4 Mobility in soil:** No available data.

• **12.5 Results of PBT and vPvB assessment:**

This mixture does not contain any substances ($\geq 0.1\%$) that are assessed to be a PBT or a vPvB.

• **12.6 Endocrine disrupting properties:**

None ingredient ($\geq 0.1\%$) does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

• **12.7 Other adverse effects:** No known other adverse effects.

• **12.8 Additional ecological information**

• **General notes:** WGK2 (German Regulation) (self-assessment): Hazard to waters.

Do not allow the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration

• **13.1 Waste treatment methods**

• **Recommendation:** Must not be disposed together with household garbage.

• **13.2 Un-cleaned packaging**

• **Recommendation:** Dispose of contents/container in according to the local/regional/national/ international regulation.

SECTION 14: Transport information

• 14.1 UN-Number ADR, RID, ADN, IMDG, IATA	Not regulated as dangerous transport goods, not applicable
• 14.2 UN proper shipping name ADR, RID, ADN, IMDG, IATA	Void
• 14.3 Transport hazard class (es) ADR, RID, ADN, IMDG, IATA Class Label	Void Void
• 14.4 Packing group ADR, RID, ADN, IMDG, IATA	Void
• 14.5 Marine pollution	No
• 14.6 Special precautions for user • Danger code (Kemler) • EMS number	Void Void Void
• 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Void

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SECTION 15: Regulatory information

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

• **MAK (German Maximum Workplace Concentration):**

64-17-5	Ethyl alcohol	5
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• **Directive 2012/18/EU**

• **Named dangerous substances-ANNEX I:** None of the ingredients is listed.

• **Seveso category:** Not applicable

• **Qualifying quantity (tonnes) for the application of lower-tier requirements:** Not applicable

• **Qualifying quantity (tonnes) for the application of upper-tier requirements:** Not applicable

• **National regulations.**

• **Water hazard class: WGK2 (German Regulation) (self-assessment):** Hazard to waters.

• **Other regulations, limitations and prohibitive regulations**

• **SVHC Candidate list of REACH Regulation Annex XIV Authorization:** None of the ingredients is listed.

• **REACH Regulation Annex XVII Restriction:** None of the ingredients is listed.

• **REACH Regulation Annex XIV Authorization List:** None of the ingredients is listed.

• **15.2 Chemical safety assessment:** A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

• **16.1 Indication of changes:**

Not applicable

16.2 Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

vPvB: very persistent and very bio accumulative

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

BOD₅: Five days biochemical oxygen demand

COD: Chemical oxygen demand

Flam. Liq. 2: Flammable liquids, hazard category 2

Flam. Liq. 3: Flammable liquids, hazard category 3

Flam. Sol. 2: Flammable solid, hazard category 2

Acute Tox. 4: Acute toxicity, hazard category 4

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Asp.Tox. 1: Aspiration toxicity, hazard category 1

Skin Irrit.2: Skin corrosion/irritation, hazard category 2

Skin Sens. 1: Respiratory or skin sensitization, hazard category 1

Skin Sens. 1B: Respiratory or skin sensitization, hazard category 1B

Eye Dam. 1: Eye damage/irritation, hazard category 1

Eye Irrit. 2: Eye damage/irritation, hazard category 2

STOT SE 3: Specific target organ toxicity after single exposure, hazard category 3

Aquatic Acute 1: Short-term (acute) aquatic hazard, hazard category 1

Aquatic Chronic 1: Long-term (chronic) aquatic hazard, hazard category 1

Aquatic Chronic 2: Long-term (chronic) aquatic hazard, hazard category 2

Aquatic Chronic 3: Long-term (chronic) aquatic hazard, hazard category 3

• 16.3 Key literature references and sources for data:

<https://echa.europa.eu/>

<https://chem.nlm.nih.gov/>

<https://www.osha.gov/>

<http://www.unece.org/>

<http://www.imo.org/>

<https://www.dguv.de/>

<https://epa.govt.nz/>

<http://www.ilo.org/>

<https://www.phmsa.dot.gov/>

• 16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:

See SECTION 2.1 (classification).

• 16.5 Relevant H- and EUH-phrases (number and full text):

H225 Highly flammable liquid and vapour

H226 Flammable liquid and vapour

H228 Flammable solid

H302 Harmful if swallowed

H304 May be fatal if swallowed and enters airways

H312 Harmful in contact with skin

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

H411 Toxic to aquatic life with long lasting effects

H412 Harmful to aquatic life with long lasting effects

EUH066 Repeated exposure may cause skin dryness or cracking

• 16.6 Training advice:

Workers must be educated and trained so they can read SDS and understand the hazards, and know how to work safely with hazardous products.

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· 16.7 Further information

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

DISCLAIMER OF LIABILITY:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

End of safety data sheet