

Safety Data Sheet

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

Version No.: 1.0

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SDS REPORT

TAIZHOU BIGE CLEANING PRODUCTS CO., LTD.

No. 02, 8 Building, Kangle Industrial Park, 18 Hongsanzhong Road, Jiaojiang, Taizhou, Zhejiang, China

SDS Report No. : SDS20220521203
Compilation Date : December 7th, 2024
Trade Name : Football Urinal Screen
Composition/Ingredient of The Sample : See Section 3 on the SDS
Service Requested : Safety Data Sheet (SDS) for the sample with submitted composition.
Summary : As per request, the contents and formats of the SDS are prepared in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878, (EC) No 1272/2008 and are provided per attached.

Signed for and on behalf of
Technical Center:





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

• 1.1 Product identifier

- **Trade name:** *Football Urinal Screen*
- **Registration number:** *No available data.*
- **UFI number:** *No available data.*
- **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:** *For urinal deodorizing.*
- **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:..**

TAIZHOU BIGE CLEANING PRODUCTS CO., LTD.

No. 02, 8 Building, Kangle Industrial Park, 18 Hongsanzhong Road, Jiaojiang, Taizhou, Zhejiang, China

Tel: +86 576 89801885

Email: info@biggieproducts.com

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

- **Further information obtainable from:** TAIZHOU BIGE CLEANING PRODUCTS CO., LTD.

• 1.4 Emergency telephone number.

Country	Official advisory body	Address	Emergency number	Remark
Austria	Vergiftungsinformationszentra le (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 спешна медицина "Н.И.Пирогов" (National Clinical Toxicology Centre), Emergency Medical Institute "Pirogov"	21 Totleben 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>	<i>10000 Zagreb</i>		
<i>Cyprus</i>	<i>Κέντρον Δηλητηριάσεων</i>		<i>1401</i>	<i>Operating hours 24 hours / 24 hours, 7 days a week</i>
<i>Czech Republic</i>	<i>ToxikologickéinformačnístřediskoKlini kapracovníholékařstvíVFN a 1. LF UK</i>	<i>Na Bojišti 1 120 00 Praha 2</i>	<i>+420 224 919 293 +420 224 915 402</i>	
<i>Denmark</i>	<i>Gifljinjen Bispebjerg Hospital</i>	<i>Bispebjerg Bakke 23 2400 København NV</i>	<i>+45 82 12 12 12</i>	
<i>Estonia</i>	<i>Mürgistusteabekeskus</i>	<i>Gonsiori 29 15027 Tallinn</i>	<i>16662 +372 626 93 90</i>	
<i>Finland</i>	<i>Myrkytystietokeskus</i>	<i>Stenbäckinkatu 9 PO BOX 100 29 Helsinki</i>	<i>+358 9 471 977 +358 9 4711</i>	
<i>France</i>	<i>Centre Antipoison et de Toxicovigilance de Paris Hôpital Fernand Widal</i>	<i>200 rue du Faubourg Saint-Denis 75475 Paris Cedex 10</i>	<i>+33 1 40 05 48 48</i>	
<i>France</i>	<i>Centre Antipoison et de Toxicovigilance de Marseille Hôpital Sainte Marguerite</i>	<i>270 boulevard de Sainte Marguerite 13274 Marseille Cedex 09</i>	<i>+33 4 91 75 25 25</i>	
<i>Germany</i>	<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>	<i>+49 (0) 89 19240</i>	
<i>Germany</i>	<i>Giftnotruf der Charité CBF, Haus VIII (Wirtschaftsgebäude), UG</i>	<i>Hindenburgdamm 30 12203 Berlin</i>	<i>+49 (0) 30 19240</i>	
<i>Greece</i>	<i>Poisons Information Centre Children's Hospital P&A Kyriakou</i>	<i>11762 Athens</i>	<i>+30 2 10 779 3777</i>	
<i>Hungary</i>	<i>Országos Kémiai Biztonsági Intézet Egészségügyi Toxikológiai Tájékoztató Szolgálat</i>	<i>Nagyvárad tér 2. 1437 Budapest, Pf. 839 1097 Budapest</i>	<i>+36 80 20 11 99</i>	
<i>Iceland</i>	<i>Eitrunarmiðstöð Landspítali</i>	<i>Fossvogi 108 Reykjavik</i>	<i>+354 543 22 22</i>	
<i>Ireland</i>	<i>National Poisons Information Centre Beaumont Hospital</i>	<i>PO Box 1297 Beaumont Road 9 Dublin</i>	<i>+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)</i>	
<i>Italy</i>	<i>Centro Antiveneni Dipartimento di Tossicologia Clinica, Università Cattolica del Sacro Cuore</i>	<i>Largo Agostino Gemelli 8 168 Roma</i>	<i>+39 06 305 4343</i>	
<i>Latvia</i>	<i>Valsts Toksikoloģijas centrs,</i>	<i>Hipokrāta 2</i>	<i>+371 67 04 24 73</i>	

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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 I 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 InformaçãoAntivenenosInstituto 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 UrgentaFloreasca</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 toxikologickéinformačné 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 nº4 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. 1, H317</i>	<i>Calculation method</i>
<i>Eye Irrit. 2, H319</i>	<i>Calculation method</i>
<i>Aquatic Chronic 2, H411</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 Regulation (EC) No 1272/2008.

- **Hazard pictograms:**



GHS07 GHS09

- **Signal word:** *Warning*

• **Hazard-determining components of labelling:** *D-Limonene; p-tert-Butylcyclohexyl acetate; acetate iris ester; Citral; Linalool.*

- **Hazard statements:**

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H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H411 Toxic 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.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P391 Collect spillage.

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.None ingredients ($\geq 0.1\%$) 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:** Football Urinal Screen (Kiwi Grapefruit)**Ingredients:**

Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Ethylene vinyl acetate (EVA)	24937-78-8	-	-	79.5	None	-
2-Phenoxyethanol	122-99-6	603-098-00-9	204-589-7	5-7.5	Acute Tox. 4, H302 Eye Irrit. 2, H319	ATE(oral)=1260 mg/kg; Eye Irrit. 2, H319: C \geq 20%
D-Limonene	5989-27-5	601-029-00-7	227-813-5	3-5	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 \geq 20%; M=1 M(Chronic)=1
Benzyl benzoate	120-51-4	607-085-00-9	204-402-9	2-3.75	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE(oral)=1900 mg/kg M=1
p-tert-Butylcyclohexyl acetate; acetate iris	32210-23-4	-	250-954-9	2.5-3.75	Skin Sens. 1B, H317	-

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ester						
Pigment	-	-	-	0.5	-	-
Citral	5392-40-5	605-019-00-3	226-394-6	0.25-1.25	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319	Skin Irrit. 2, H315: C _≥ 20%
Linalool	78-70-6	603-235-00-2	201-134-4	0.25-1.25	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	-
Tricyclodeceny acetate	5413-60-5	-	226-501-6	0.25-1.25	None	-
DL-Menthol	1490-04-6	-	216-074-4	0.25-1.25	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-
Leaf alcohol	928-96-1	-	213-192-8	0.25-1.25	Flam. Liq. 3, H226 Eye Irrit. 2, H319	-
Anisyl acetate	104-21-2	-	203-185-8	0.25-1.25	Skin Sens. 1B, H317	-
alpha- Hexylcinnamaldehyde	101-86-0	-	202-983-3	0.025-0.25	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M=1

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. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.**After swallowing:** Rinse mouth. 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; Causes serious eye irritation.**4.3 Indication of any immediate medical attention and special treatment needed:** Treat according to symptom, there is not known specific medicine.**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 gas in air under fire.**5.3 Advice for firefighters**

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Protective equipment:

Wear an approved positive pressure self-contained breathing apparatus (Comply with EN 133).

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 gas; 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:**

Sweep up without creating dust and shovel into suitable containers for disposal; Ensure good ventilation; 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:**

Read carefully and follow all instructions; Ensure adequate ventilation at workplace; Wear protective equipments; Avoid breathing dust; Avoid contact with eyes and skin; 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:** 13.

- **7.3 Specific end use(s):** See section 1.2.

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
122-99-6	2-Phenoxyethanol	

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Austria	20ppm; 110 mg/m ³	20ppm; 110 mg/m ³
Finland	20ppm; 110 mg/m ³	50ppm; 290 mg/m ³ 15 minutes average value
Germany (AGS)	1ppm; 5.7 mg/m ³ Inhalable aerosol and vapour	1ppm; 5.7 mg/m ³ Inhalable aerosol and vapour; 15 minutes reference period
Germany (DFG)	1ppm; 5.7 mg/m ³ Inhalable aerosol and vapour	1ppm; 5.7 mg/m ³ Inhalable aerosol and vapour; 15 minutes reference period
Poland	230mg/m ³	-
5989-27-5 D-Limonene		
Finland	25ppm; 140mg/m ³	50ppm; 280mg/m ³ 15 minutes average value
Germany (AGS)	5ppm; 28mg/m ³	20ppm; 110mg/m ³ 15 minutes reference period
Germany (DFG)	5ppm; 28mg/m ³	20ppm; 112mg/m ³ 15 minutes average value
5392-40-5 Citral		
Belgium	5ppm; 32mg/m ³ Inhalable fraction and vapour	-
Poland	27mg/m ³	54mg/m ³
Spain	5ppm	-

• DNELs:

DNEL type		DNEL worker value	DNEL consumer value
122-99-6 2-Phenoxyethanol			
Systemic effects	Long-term, inhalation exposure	8.07 mg/m ³	2.41 mg/m ³
	Long-term, dermal exposure	20.83 mg/kg bw/day	10.42 mg/kg bw/day
	Long-term, oral exposure	-	9.23 mg/kg bw/day
	Acute /short term, oral exposure	-	9.23 mg/kg bw/day
Local effects	Long-term, inhalation exposure	8.07 mg/m ³	2.41 mg/m ³
5989-27-5 D-Limonene			
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
120-51-4 Benzyl benzoate			
Systemic effects	Long-term, inhalation exposure	5.1 mg/m ³	1.25 mg/m ³
	Acute /short term, inhalation exposure	102 mg/m ³	-
	Long-term, dermal exposure	2.6 mg/kg bw/day	1.3 mg/kg bw/day
	Long-term, oral exposure	-	400 µg/kg bw/day
	Acute /short term, oral exposure	-	78 mg/kg bw/day
5392-40-5 Citral			
Systemic effects	Long-term, inhalation exposure	9 mg/m ³	2.7 mg/m ³
	Long-term, dermal exposure	1.7 mg/kg bw/day	1 mg/kg bw/day
	Long-term, oral exposure	-	600 µg/kg bw/day
Local effects	Long-term, dermal exposure	140 µg/cm ²	140 µg/cm ²
78-70-6 Linalool			
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

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	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

• **PNECs:**

PNEC type	Value
122-99-6 2-Phenoxyethanol	
Freshwater	943 µg/L
Intermittent releases (freshwater)	3.44 mg/L
Marine water	94.3 µg/L
Sewage treatment plant (STP)	24.8 mg/L
Sediment (freshwater)	7.237 mg/kg sediment dw
Sediment (marine water)	723.7 µg/kg sediment dw
5989-27-5 D-Limonene	
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
120-51-4 Benzyl benzoate	
Freshwater	16.8 µg/L
Marine water	1.68 µg/L
Sewage treatment plant (STP)	100 mg/L
Sediment (freshwater)	10.66 mg/kg sediment dw
Sediment (marine water)	1.07 mg/kg sediment dw
5392-40-5 Citral	
Freshwater	6.78 µg/L
Intermittent releases (freshwater)	67.8 µg/L
Marine water	678 ng/L
Sewage treatment plant (STP)	1.6 mg/L
Sediment (freshwater)	125 µg/kg sediment dw
Sediment (marine water)	12.5 µg/kg sediment dw
78-70-6 Linalool	
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

• **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:**

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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	<i>solid</i>
• Color	<i>green</i>
• Odor & Odor threshold	<i>Characteristic</i>
• Melting point/freezing point (or softening point/range)	<i>Not determined</i>
• Boiling point or initial boiling point and boiling range	<i>176°C (D-Limonene)</i>
• Flammability	<i>Not flammable gel.</i>
• Lower and upper explosion limit	<i>Not determined</i>
• Flash point	<i>Not applicable</i>
• Auto-ignition temperature	<i>Not applicable</i>
• Decomposition temperature	<i>Not applicable</i>
• pH	<i>Not determined, mixture is insoluble in water.</i>
• Kinematic viscosity (mm²/s)	<i>Not determined</i>
• Solubility	<i>Insoluble in water</i>
• Partition coefficient n-octanol/water (log value)	<i>Not determined</i>
• Vapor pressure	<i>Not determined</i>
• Density and/or relative density	<i>Not determined</i>

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· <i>Relative vapor density</i>	<i>Not determined</i>
· <i>Particle characteristics</i>	<i>Not applicable</i>
· 9.2 Other information	
· 9.2.1 Information with regard to physical hazard classes:	
· <i>Explosives</i>	<i>Not determined</i>
· <i>Flammable gases</i>	<i>Not applicable</i>
· <i>Aerosols</i>	<i>Not applicable</i>
· <i>Oxidising gases</i>	<i>Not applicable</i>
· <i>Gases under pressure</i>	<i>Not applicable</i>
· <i>Flammable liquids</i>	<i>Not applicable</i>
· <i>Flammable solids</i>	<i>Not applicable</i>
· <i>Self-reactive substances and mixtures</i>	<i>Not applicable</i>
· <i>Pyrophoric liquids</i>	<i>Not applicable</i>
· <i>Pyrophoric solids</i>	<i>Not applicable</i>
· <i>Self-heating substances and mixtures</i>	<i>Not applicable</i>
· <i>Substances and mixtures, which emit flammable gases in contact with water</i>	<i>Not applicable</i>
· <i>Oxidizing liquids</i>	<i>Not applicable</i>
· <i>Oxidizing solids</i>	<i>Not applicable</i>
· <i>Organic peroxides</i>	<i>Not applicable</i>
· <i>Corrosive to metals</i>	<i>Not applicable</i>
· <i>Desensitised explosives</i>	<i>Not applicable</i>
· 9.2.2 Other safety characteristics	
· <i>Mechanical sensitivity</i>	<i>Not applicable</i>
· <i>Self-accelerating polymerisation temperature</i>	<i>Not applicable</i>
· <i>Formation of explosible dust/air mixtures</i>	<i>Not applicable</i>
· <i>Acid/alkaline reserve</i>	<i>Not applicable</i>
· <i>Evaporation rate</i>	<i>Not applicable</i>
· <i>Miscibility</i>	<i>Not applicable</i>
· <i>Conductivity</i>	<i>Not applicable</i>
· <i>Corrosiveness</i>	<i>Not applicable</i>
· <i>Gas group</i>	<i>Not applicable</i>
· <i>Redox potential</i>	<i>Not applicable</i>
· <i>Radical formation potential</i>	<i>Not applicable</i>
· <i>Photocatalytic properties</i>	<i>Not applicable</i>
· <i>Other physical and chemical parameters</i>	<i>Not determined</i>

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.

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- **10.4 Conditions to avoid:** High temperature and flame.
- **10.5 Incompatible materials:** Strong bases, strong oxidizing agents.
- **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.

<i>ATE_{mix}</i> (oral)	>	2000mg/kg
<i>ATE_{mix}</i> (dermal)	>	2000mg/kg
<i>ATE_{mix}</i> (inhal.)	>	1.5mg/l (mist)

LD50/LC50 values relevant for classification:

122-99-6 2-Phenoxyethanol

Mouse	LD50-oral	933mg/kg
Rabbit	LD50-skin	5mL/kg
Rat	LD50-oral	1260mg/kg
	LD50-skin	14422mg/kg

5989-27-5 D-Limonene

Rabbit	LD50-skin	> 5000mg/kg
Rat	LD50-oral	4400mg /kg
Mouse	LD50-oral	5600mg/kg

120-51-4 Benzyl benzoate

Rat	LD50-oral	1900 mg/kg
	LD50-skin	4mL/kg
Mouse	LD50-oral	1400uL/kg
Rabbit	LD50-oral	1680mg/kg
	LD50-skin	4000mg/kg

5392-40-5 Citral

Rabbit	LD50-skin	2250mg/kg
Rat	LD50-oral	4960mg/kg
Mouse	LD50-oral	6000mg/kg

78-70-6 Linalool

Rabbit	LD50-skin	5610mg/kg
Rat	LD50-oral	2790mg /kg
	LD50-skin	5610mg/kg
Mouse	LD50-oral	3000mg/kg

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:** Causes serious eye irritation.
- **Respiratory or skin sensitization:** May cause an allergic skin reaction.

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- **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:

None ingredient ($\geq 0.1\%$) 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.

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:

122-99-6 2-Phenoxyethanol

Short-term toxicity to fish	LC50 (4 days) 344 mg/L NOEC (4 days) 100 mg/L
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Long-term toxicity to fish	NOEC (34 days) 23 mg/L
----------------------------	------------------------

Short-term toxicity to aquatic invertebrates	EC50 (48 h) 488 mg/L
--	----------------------

Long-term toxicity to aquatic invertebrates	NOEC (21 days) 9.43 mg/L
---	--------------------------

Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 443 mg/L NOEC (72 h) 159 mg/L
---	--

Toxicity to microorganisms	EC50 (17 h) 883.3 mg/L
----------------------------	------------------------

5989-27-5 D-Limonene

Short-term toxicity to fish	LC50 (4 days) 460 - 720 $\mu\text{g/L}$ EC50 (4 days) 688 - 702 $\mu\text{g/L}$
-----------------------------	--

Long-term toxicity to fish	NOEC (28 days) 80 $\mu\text{g/L}$
----------------------------	-----------------------------------

Short-term toxicity to aquatic invertebrates	EC50 (48 h) 307 - 510 $\mu\text{g/L}$ EC50 (24 h) 840 $\mu\text{g/L}$
--	--

Long-term toxicity to aquatic invertebrates	NOEC (21 days) 50 - 80 $\mu\text{g/L}$ EC50 (21 days) 188 $\mu\text{g/L}$
---	--

Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 214 - 320 $\mu\text{g/L}$ NOEC (48 h) 90 $\mu\text{g/L}$
---	---

120-51-4 Benzyl benzoate

Long-term toxicity to aquatic invertebrates	NOEC (21 days) 258 - 970 $\mu\text{g/L}$
---	--

Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 475 $\mu\text{g/L}$ NOEC (72 h) 247 $\mu\text{g/L}$
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5392-40-5 Citral	
Short-term toxicity to fish	LC50 (4 days) 6.78 mg/L NOEC (4 days) 4.6 mg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 6.8 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 103.8 mg/L
78-70-6 Linalool	
Short-term toxicity to fish	LC50 (4 days) 27.8 mg/L
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

• 12.2 Persistence and degradability:

122-99-6	2-Phenoxyethanol	Readily biodegradable in water
5989-27-5	D-Limonene	Readily biodegradable in water
120-51-4	Benzyl benzoate	Readily biodegradable in water
5392-40-5	Citral	Readily biodegradable in water
78-70-6	Linalool	Readily biodegradable in water

• 12.3 Bio-accumulative potential:

122-99-6	2-Phenoxyethanol	Log Pow= 1.107 - 1.2 at 23 °C and pH 5 - 9
5989-27-5	D-Limonene	Log Pow =4.38 at 37 °C and pH 7.2
120-51-4	Benzyl benzoate	Log Pow = 3.97 at 25 °C
5392-40-5	Citral	Log Pow =2.76 at 25 °C
78-70-6	Linalool	Log Pow = 2.84 - 2.9 at 20 - 25 °C and pH 7

• 12.4 Mobility in soil:

122-99-6	2-Phenoxyethanol	Log Koc= 40.74 at 20 °C; Henrys law constant= 0.002 Pa.m ³ /mol at 20 °C
5392-40-5	Citral	Log Koc=2.169; Henrys law constant=4.458 - 38.098 Pa m ³ /mol at 25 °C

• 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.

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- 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	UN3077
· 14.2 UN proper shipping name ADR, RID, ADN, IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
· 14.3 Transport hazard class (es) ADR, RID, ADN, IMDG, IATA Class Label	 9 Miscellaneous dangerous substances and articles. 9
· 14.4 Packing group ADR, RID, ADN, IMDG, IATA	III
· 14.5 Marine pollution	No
· 14.6 Special precautions for user · Danger code (Kemler) · EMS number	Warning: Miscellaneous dangerous substances and articles 90 F-A, S-F
· 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	IBC08

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- **MAK (German Maximum Workplace Concentration):** None of the ingredients is listed.
- **Directive 2012/18/EU**
- **Named dangerous substances-ANNEX I:** None of the ingredients is listed.
- **Seveso category:** E2 Hazardous to the Aquatic Environment.
- **Qualifying quantity (tonnes) for the application of lower-tier requirements:** 200 ton(net).
- **Qualifying quantity (tonnes) for the application of upper-tier requirements:** 500 ton(net).
- **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:

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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

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

Acute Tox. 4: Acute toxicity, hazard category 4

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

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

• 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):

H226 Flammable liquid and vapour

H302 Harmful if swallowed

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

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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

• 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.

• 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.

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End of safety data sheet