

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))  
LBYH 202 VERT OTAN 10-20UB**

Regulation (EU) n. 2020/878

**Safety Data Sheet date: 25/7/2024, version 3****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name: LBYH 202 VERT OTAN 10-20UB  
SDS code: 104241EU  
UFI: 7S9R-5DEU-AP9S-PFN9

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

Recommended use:

Industrial uses  
Paint/Coating

**1.3. Details of the supplier of the safety data sheet****Manufacturers:**

Socomore SASU - Zone Industrielle du Prat - CS 23707 - 56037 VANNES CEDEX - France  
-Tel. +33 (0)2 97 43 76 90

Manufacturing - Parc Gohelis - 56250 ELVEN France - Tel +33 (0)2 97 43 76 83 - Fax +33 (0)2 97 54 50 26

Socomore Ireland Ltd. - Meenane, Watergrasshill, Co. Cork, Ireland - Tel +353 21 4889922 / Fax +353 21 4889923 / ireland@socomore.com

**Distributors:**

Socomore SASU - Zone Industrielle du Prat - CS 23707 - 56037 VANNES CEDEX - France  
-Tel. +33 (0)2 97 43 76 90

Manufacturing - Parc Gohelis - 56250 ELVEN France - Tel +33 (0)2 97 43 76 83 - Fax +33 (0)2 97 54 50 26

Socomore Ireland Ltd. - Meenane, Watergrasshill, Co. Cork, Ireland - Tel +353 21 4889922 / Fax +353 21 4889923 / ireland@socomore.com

**Competent person responsible for the safety data sheet:**

techdirsocomore@socomore.com

**1.4. Emergency telephone number**

France : ORFILA (INRS) +33 (0)1 45 42 59 59

International : CHEMTEL +1-813-248-0585.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****EC regulation criteria 1272/2008 (CLP)**

⚠ Warning, Skin Sens. 1, May cause an allergic skin reaction.

Adverse physicochemical, human health and environmental effects:

No other hazards

**2.2. Label elements**

Hazard pictograms:

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**Warning**

**Hazard statements:**

H317 May cause an allergic skin reaction.

**Precautionary statements:**

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P501 Dispose of contents/container in accordance with applicable regulations.

**Special Provisions:**

- EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
- EUH208 Contains octhiline (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]. May produce an allergic reaction.
- EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

**Contains**

reaction mass of  
 alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and  
 alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

**Special provisions according to Annex XVII of REACH and subsequent amendments:**

None

**2.3. Other hazards**

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

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

**3.1. Substances**

N.A.

**3.2. Mixtures**

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
$\geq 0.5\%$ - $< 1\%$	Titanium dioxide	CAS: 13463-67-7 EC: 236-675-5 REACH No.: 01-2119489379	The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).

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>= 0.5% - < 1%	(2-Methoxymethylethoxy)-propanol	Index number: CAS: EC: REACH No.:	603_998_97_1 34590-94-8 252-104-2 01-2119450011-60	Substance with a Union workplace exposure limit.
>= 0.3% - < 0.5%	reaction mass of alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl-omega-hydroxypoly(oxyethylene) and alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyloxypoly(oxyethylene)	Index number: EC:	607-176-00-3 400-830-7	<ul style="list-style-type: none"> <li>⚠ 3.4.2/1A Skin Sens. 1A H317</li> <li>⚠ 4.1/C2 Aquatic Chronic 2 H411</li> </ul>
>= 0.3% - < 0.5%	Acetone; propan-2-one; propanone	Index number: CAS: EC: REACH No.:	606-001-00-8 67-64-1 200-662-2 01-2119471330-49	<ul style="list-style-type: none"> <li>⚠ 2.6/2 Flam. Liq. 2 H225</li> <li>⚠ 3.3/2 Eye Irrit. 2 H319</li> <li>⚠ 3.8/3 STOT SE 3 H336</li> </ul> EUH066
>= 0.25% - < 0.3%	2-butoxyethanol; ethylene glycol monobutyl ether	Index number: CAS: EC: REACH No.:	603-014-00-0 111-76-2 203-905-0 01-2119475108-36	<ul style="list-style-type: none"> <li>⚠ 3.1/3/Inhal Acute Tox. 3 H331</li> <li>⚠ 3.1/4/Oral Acute Tox. 4 H302</li> <li>⚠ 3.2/2 Skin Irrit. 2 H315</li> <li>⚠ 3.3/2 Eye Irrit. 2 H319</li> </ul> Acute Toxicity Estimate: ATE - Oral 1200 mg/kg bw ATE - Inhalation (Vapours) 3 mg/l
>= 0.1% - < 0.25%	2-dimethylaminoethanol; N,N-dimethylethanolamine	CAS: EC: REACH No.:	108-01-0 203-542-8 01-2119492298	<ul style="list-style-type: none"> <li>⚠ 2.6/3 Flam. Liq. 3 H226</li> <li>⚠ 3.1/4/Oral Acute Tox. 4 H302</li> <li>⚠ 3.1/4/Dermal Acute Tox. 4 H312</li> </ul>

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		-24	<ul style="list-style-type: none"> <li>⚠ 3.2/1B Skin Corr. 1B H314</li> <li>⚠ 3.1/3/Inhal Acute Tox. 3 H331</li> <li>⚠ 3.8/3 STOT SE 3 H335</li> </ul> <p>Specific Concentration Limits:  C &gt;= 5%: STOT SE 3 H335</p> <p>Acute Toxicity Estimate:  ATE - Oral 1102,7 mg/kg bw  ATE - Dermal 1100 mg/kg bw  ATE - Inhalation (Vapours) 6,1 mg/l</p>
>= 0.1% - < 0.25%	Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl) propionate]	CAS: 36443-68-2	<ul style="list-style-type: none"> <li>⚠ 4.1/C1 Aquatic Chronic 1 H410</li> </ul>
>= 0.001% - < 0.1%	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	<p>Index number: 613-088-00-6</p> <p>CAS: 2634-33-5</p> <p>EC: 220-120-9</p> <p>REACH No.: 01-2120761540-60</p>	<ul style="list-style-type: none"> <li>⚠ 3.1/2/Inhal Acute Tox. 2 H330</li> <li>⚠ 3.2/2 Skin Irrit. 2 H315</li> <li>⚠ 3.3/1 Eye Dam. 1 H318</li> <li>⚠ 3.4.2/1 Skin Sens. 1 H317</li> <li>⚠ 3.1/4/Oral Acute Tox. 4 H302</li> <li>⚠ 4.1/A1 Aquatic Acute 1 H400</li> <li>⚠ 4.1/C1 Aquatic Chronic 1 H410</li> </ul> <p>Specific Concentration Limits:  C &gt;= 0,05%: Skin Sens. 1 H317</p>
>= 0.001% - < 0.1%	triethylamine	<p>CAS: 121-44-8</p> <p>EC: 204-469-4</p> <p>REACH No.: 01-2119475467-26</p>	<ul style="list-style-type: none"> <li>⚠ 2.6/2 Flam. Liq. 2 H225</li> <li>⚠ 3.3/1 Eye Dam. 1 H318</li> <li>⚠ 3.1/4/Oral Acute Tox. 4 H302</li> <li>⚠ 3.1/3/Dermal Acute Tox. 3 H311</li> <li>⚠ 3.1/3/Inhal Acute Tox. 3 H331</li> <li>⚠ 3.2/1A Skin Corr. 1A H314</li> <li>⚠ 3.8/3 STOT SE 3 H335</li> </ul> <p>Specific Concentration Limits:  C &gt;= 1%: STOT SE 3 H335</p> <p>Acute Toxicity Estimate:  ATE - Oral 730 mg/kg bw  ATE - Dermal 580 mg/kg bw  ATE - Inhalation (Vapours) 7,22 mg/l</p>
>= 0.0005% - < 0.001%	octhiline (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]	<p>Index number: 613-112-00-5</p> <p>CAS: 26530-20-1</p> <p>EC: 247-761-7</p>	<ul style="list-style-type: none"> <li>⚠ 3.1/2/Inhal Acute Tox. 2 H330</li> <li>⚠ 3.1/3/Dermal Acute Tox. 3 H311</li> <li>⚠ 3.1/3/Oral Acute Tox. 3 H301</li> <li>⚠ 3.2/1 Skin Corr. 1 H314</li> <li>⚠ 3.3/1 Eye Dam. 1 H318</li> <li>⚠ 3.4.2/1A Skin Sens. 1A H317</li> </ul>

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			<p>⚠ 4.1/A1 Aquatic Acute 1 H400 M=100.</p> <p>⚠ 4.1/C1 Aquatic Chronic 1 H410 M=100.</p> <p>EUH071</p> <p>Specific Concentration Limits: C &gt;= 0,0015%: Skin Sens. 1A H317</p> <p>Acute Toxicity Estimate: ATE - Oral 125 mg/kg bw ATE - Dermal 311 mg/kg bw ATE - Inhalation (Dust/mist) 0,27 mg/l</p>
>= 0.0005% - < 0.001%	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	<p>CAS: 55965-84-9</p> <p>REACH No.: 01-2120764691-48</p>	<p>⚠ 3.1/2/Dermal Acute Tox. 2 H310</p> <p>⚠ 3.1/3/Oral Acute Tox. 3 H301</p> <p>⚠ 3.1/2/Inhal Acute Tox. 2 H330</p> <p>⚠ 3.2/1C Skin Corr. 1C H314</p> <p>⚠ 3.4.2/1A Skin Sens. 1A H317</p> <p>⚠ 4.1/A1 Aquatic Acute 1 H400 M=100.</p> <p>⚠ 4.1/C1 Aquatic Chronic 1 H410 M=100.</p> <p>⚠ 3.3/1 Eye Dam. 1 H318</p> <p>EUH071</p> <p>Specific Concentration Limits: C &gt;= 0,6%: Eye Dam. 1 H318 C &gt;= 0,6%: Skin Corr. 1B H314 0,06% &lt;= C &lt; 0.6%: Skin Irrit. 2 H315 0,06% &lt;= C &lt; 0.6%: Eye Irrit. 2 H319 C &gt;= 0,0015%: Skin Sens. 1A H317</p> <p>Acute Toxicity Estimate: ATE - Oral 64 mg/kg bw ATE - Dermal 87,12 mg/kg bw ATE - Inhalation (Dust/mist) 0,33 mg/l</p>

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

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Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not induce vomiting. Obtain a medical examination.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

**4.3. Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

No particular treatment.

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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media:

Carbon dioxide (CO<sub>2</sub>)

Dry powder

Foam.

Extinguishing media which must not be used for safety reasons:

High power water jet

**5.2. Special hazards arising from the substance or mixture**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

**5.3. Advice for firefighters**

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

**6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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

Wash with plenty of water.

**6.4. Reference to other sections**

See also section 8 and 13

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#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, ensure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

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

Keep away from food, drink and feed.

Incompatible materials:

Keep away from frost.

Product should be stored at above freezing conditions.( >0°C)

Instructions as regards storage premises:

Adequately ventilated premises.

##### 7.3. Specific end use(s)

None in particular

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

##### 8.1. Control parameters

Occupational exposure limit values

Titanium dioxide - CAS: 13463-67-7

- OEL Type: ACGIH - TWA(8h): 0.2 mg/m<sup>3</sup> - Notes: Nanoscale particles; (R ); A3 - LRT irr, pneumoconiosis

- OEL Type: National - TWA: 10 mg/m<sup>3</sup> - Notes: France (a,TiO<sub>2</sub>)

- OEL Type: National - TWA: 5 mg/m<sup>3</sup> - Notes: France (a,dust)

- OEL Type: National - TWA: 10 mg/m<sup>3</sup> - Notes: Belgium

- OEL Type: National - TWA: 4 mg/m<sup>3</sup> - STEL: 12 mg/m<sup>3</sup> - Notes: UK

- OEL Type: National - TWA: 10 mg/m<sup>3</sup> - Notes: Spain

- OEL Type: National - TWA: 10 mg/m<sup>3</sup> - Notes: Portugal

- OEL Type: National - TWA: 6 mg/m<sup>3</sup> - Notes: Denmark

- OEL Type: National - TWA: 5 mg/m<sup>3</sup> - STEL: 10 mg/m<sup>3</sup> - Notes: Austria

- OEL Type: National - TWA: 3 mg/m<sup>3</sup> - Notes: Switzerland

- OEL Type: National - TWA: 10 mg/m<sup>3</sup> - STEL: 30 mg/m<sup>3</sup> - Notes: Poland

- OEL Type: National - TWA: 10 mg/m<sup>3</sup> - STEL: 5 mg/m<sup>3</sup> - Notes: Norway

- OEL Type: National - TWA: 12 mg/m<sup>3</sup> - STEL: 4 mg/m<sup>3</sup> - Notes: Ireland

- OEL Type: National - TWA: 5 mg/m<sup>3</sup> - Notes: Swedish (NGV) ; Biologiska gränsvärden för yrkesexponering

- OEL Type: ACGIH - TWA(8h): 2.5 mg/m<sup>3</sup> - Notes: Finescale particles; (R ); A3 - LRT irr, pneumoconiosis

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

- OEL Type: National - TWA(8h): 310 mg/m<sup>3</sup> - Notes: Germany - Notes DFG, EU

- OEL Type: National - TWA(8h): 308 mg/m<sup>3</sup>, 50 ppm - Behaviour: Binding - Notes:

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France VLEC - TMP N° 84 (peau)

- OEL Type: EU - TWA(8h): 308 mg/m<sup>3</sup>, 50 ppm - Notes: Skin
- OEL Type: National - TWA: 270 mg/m<sup>3</sup> - STEL: 550 mg/m<sup>3</sup> - Notes: Czech Republic
- OEL Type: ACGIH - TWA(8h): 50 ppm - Notes: Liver & CNS eff
- OEL Type: National - TWA(8h): 308 mg/m<sup>3</sup>, 50 ppm - Notes: UK - Skin
- OEL Type: National - TWA: 307 mg/m<sup>3</sup>, 50 ppm - STEL(5 min (Mow)): 614 mg/m<sup>3</sup>, 100 ppm - Notes: Österreich
- OEL Type: National - TWA: 308 mg/m<sup>3</sup>, 50 ppm - Notes: TWA Poland
- OEL Type: National - TWA: 240 mg/m<sup>3</sup> - STEL: 480 mg/m<sup>3</sup> - Notes: Poland (NDS, NDSCh)

Acetone; propan-2-one; propanone - CAS: 67-64-1

- OEL Type: National - TWA(8h): 1200 mg/m<sup>3</sup> - Notes: Germany - Notes DFG
- OEL Type: National - TWA(8h): 1210 mg/m<sup>3</sup>, 500 ppm - STEL: 2420 mg/m<sup>3</sup>, 1000 ppm - Notes: France VLEC - TMP N° 84
- OEL Type: EU - TWA(8h): 1210 mg/m<sup>3</sup>, 500 ppm
- OEL Type: ACGIH - TWA(8h): 250 ppm - STEL: 500 ppm - Notes: A4, BEI - URT and eye irr, CNS impair
- OEL Type: National - TWA: 1200 mg/m<sup>3</sup>, 500 ppm - STEL(15'): 4800 mg/m<sup>3</sup>, 2000 ppm - Notes: Österreich
- OEL Type: National - TWA(8h): 1210 mg/m<sup>3</sup>, 500 ppm - STEL(15min (Miw)): 3620 mg/m<sup>3</sup>, 1500 ppm - Notes: United Kingdom

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

- OEL Type: National - TWA(8h): 9.8 mg/m<sup>3</sup>, 2 ppm - STEL: 147.6 mg/m<sup>3</sup>, 30 ppm - Notes: France VLEC (Fabricant)
- OEL Type: EU - TWA(8h): 98 mg/m<sup>3</sup>, 20 ppm - STEL: 246 mg/m<sup>3</sup>, 50 ppm - Notes: Skin ; Annex of Directive 2000/39/EC
- OEL Type: ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - Eye and URT irr
- OEL Type: National - TWA: 49 mg/m<sup>3</sup>, 10 ppm - STEL: 246 mg/m<sup>3</sup>, 50 ppm - Notes: France VLEC (INRS)
- OEL Type: National - TWA: 49 mg/m<sup>3</sup>, 10 ppm - Notes: Germany ; TRGS 900 (AGW)

triethylamine - CAS: 121-44-8

- OEL Type: EU - TWA(8h): 8.4 mg/m<sup>3</sup>, 2 ppm - STEL: 12.6 mg/m<sup>3</sup>, 3 ppm - Notes: Skin
- OEL Type: ACGIH - TWA(8h): 0.5 ppm - STEL: 1 ppm - Notes: Skin, A4 - Visual impair, URT irr
- OEL Type: National - TWA: 4.2 mg/m<sup>3</sup>, 1 ppm - STEL: 12.6 mg/m<sup>3</sup>, 1 ppm - Behaviour: Binding - Notes: France

DNEL Exposure Limit Values

Titanium dioxide - CAS: 13463-67-7

Worker Industry: 10 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 700 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

Worker Industry: 65 mg/kg b.w./day - Consumer: 15 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects



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Worker Industry: 310 mg/m<sup>3</sup> - Consumer: 37.2 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1.67 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

reaction mass of

alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and

alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) - Index number: 607-176-00-3

Worker Industry: 0.35 mg/m<sup>3</sup> - Consumer: 0.085 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 0.5 mg/kg - Consumer: 0.25 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 0.025 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Acetone; propan-2-one; propanone - CAS: 67-64-1

Worker Industry: 2420 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects - Notes: 1h

Worker Industry: 186 mg/kg - Consumer: 62 mg/kg - Exposure: Human Dermal - Frequency: Short Term (acute) - Notes: 8h for workers, 24h for consumer

Worker Industry: 1210 mg/m<sup>3</sup> - Consumer: 200 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term (acute) - Notes: 24h for consumer

Consumer: 62 mg/kg - Exposure: Human Oral - Frequency: Short Term (acute)

Worker Industry: 500 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Worker Industry: 89 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Industry: 75 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 246 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 663 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 98 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

2-dimethylaminoethanol; N,N-dimethylethanolamine - CAS: 108-01-0

Worker Industry: 7.4 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 22 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 7.4 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 22 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local

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effects

Worker Industry: 1.04 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 5 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 5 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, local effects

triethylamine - CAS: 121-44-8

Worker Industry: 8.4 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

#### PNEC Exposure Limit Values

Titanium dioxide - CAS: 13463-67-7

Target: Fresh Water - Value: 0.184 mg/l

Target: Fresh water - temporary - Value: 0.61 mg/l

Target: Marine water - Value: 0.0184 mg/l

Target: Sewage treatment plant - Value: 100 mg/l

Target: Freshwater sediments - Value: 1000 mg/kg dw

Target: Marine water sediments - Value: 100 mg/kg dw

Target: Soil - Value: 100 mg/kg dw

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

Target: Fresh Water - Value: 19 mg/l

Target: Marine water - Value: 1.9 mg/l

Target: Microorganisms in sewage treatments - Value: 4168 mg/l

Target: Freshwater sediments - Value: 70.2 mg/kg - Notes:: mg/kg p.s.

Target: Marine water sediments - Value: 7.02 mg/kg - Notes:: mg/kg p.s.

Target: Soil (agricultural) - Value: 2.74 mg/kg - Notes:: mg/kg p.s.

Target: Water (intermittent discharge) - Value: 190 mg/l

reaction mass of

alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and

alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) - Index number: 607-176-00-3

Target: Fresh Water - Value: 0.0023 mg/l

Target: Marine water - Value: 0.00023 mg/l

Target: Sporadic discharge - Value: 0.028 mg/l

Target: Sewage treatment plant - Value: 10 mg/l

Target: Freshwater sediments - Value: 3.06 mg/kg

Target: Marine water sediments - Value: 0.306 mg/kg

Target: Soil - Value: 2 mg/kg

Acetone; propan-2-one; propanone - CAS: 67-64-1

Target: Fresh Water - Value: 10.6 mg/l

Target: Marine water - Value: 1.06 mg/l

Target: Freshwater sediments - Value: 30.4 mg/kg

Target: Marine water sediments - Value: 3.04 mg/kg

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))  
LBYH 202 VERT OTAN 10-20UB**

Target: Soil - Value: 29.5 mg/kg  
Target: Microorganisms in sewage treatments - Value: 100 mg/l  
Target: Water (intermittent discharge) - Value: 21 mg/l  
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2  
Target: Fresh Water - Value: 8.8 mg/l  
Target: Marine water - Value: 0.88 mg/l  
Target: Freshwater sediments - Value: 34.6 mg/kg  
Target: Marine water sediments - Value: 3.46 mg/kg  
Target: Soil (agricultural) - Value: 3.13 mg/kg  
Target: Microorganisms in sewage treatments - Value: 463 mg/l  
2-dimethylaminoethanol; N,N-dimethylethanolamine - CAS: 108-01-0  
Target: Fresh Water - Value: 0.0661 mg/l  
Target: Freshwater sediments - Value: 0.0529 mg/kg  
Target: Marine water - Value: 0.0066 mg/l  
Target: Soil - Value: 0.0177 mg/kg  
Target: Sewage treatment plant - Value: 10 mg/l  
triethylamine - CAS: 121-44-8  
Target: Fresh Water - Value: 0.064 mg/l  
Target: Freshwater sediments - Value: 0.1992 mg/kg  
Target: Marine water - Value: 0.0064 mg/l  
Target: Sewage treatment plant - Value: 100 mg/l  
Target: Soil - Value: 2.361 mg/kg  
Target: Intermittent discharge - Value: 0.064 mg/l

Biological Exposure Index

N.A.

**8.2. Exposure controls**

See below, example of PPE to use.

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

Other conditions affecting workers exposure:

None

---

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))**  
**LBYH 202 VERT OTAN 10-20UB**

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Green	--	--
Odour:	Inodore/ Odorless	--	--
Melting point/freezing point:	Not Relevant	--	--
Boiling point or initial boiling point and boiling range:	>36°C	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point (°C):	~66°C	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	Not Relevant	--	--
pH:	7.5	--	--
Kinematic viscosity:	> 20,5 mm <sup>2</sup> / sec (40 °C)	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	<1.000 hPa (50°C)	--	--
Density and/or relative density:	~1.15 g/cm <sup>3</sup>	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))**  
**LBYH 202 VERT OTAN 10-20UB**

9.2. Other information

Properties	Value	Method:	Notes
Viscosity:	>20.6 mm <sup>2</sup> /s (40°C)	--	--

Volatile Organic compounds - VOCs = 1.16 %

Volatile Organic compounds - VOCs = 13.34 g/l

N.A. = not available

---

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Stable under normal conditions

**10.2. Chemical stability**

Stable under normal conditions

**10.3. Possibility of hazardous reactions**

None

**10.4. Conditions to avoid**

Stable under normal conditions.

**10.5. Incompatible materials**

Strong oxidizers.

**10.6. Hazardous decomposition products**

None.

---

**SECTION 11: Toxicological information**

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

Toxicological information of the product:

LBYH 202 VERT OTAN 10-20UB

Acute toxicity

Not classified

Based on available data, the classification criteria are not met

ATEmix - Inhalation (Vapours) 784,717 mg/l

Skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

Respiratory or skin sensitisation

The product is classified: Skin Sens. 1 H317

Germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

Carcinogenicity

Not classified

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))  
LBYH 202 VERT OTAN 10-20UB**

Based on available data, the classification criteria are not met

Reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

Aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Titanium dioxide - CAS: 13463-67-7

Acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 6.82 mg/l - Duration: 4h

STOT-repeated exposure:

Test: NOAEL - Route: Oral - Species: Rat (Male, female) > 1000 mg/kg - Duration: 90 Jours - Source: OECD 408 - Subchronic toxicity

Test: NOAEL - Route: Oral - Species: Rat (male) = 24000 mg/kg - Duration: 29 days - Source: OECD 407 - Subchronic toxicity

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

Acute toxicity

ATE - Oral 5001 mg/kg bw

ATE - Dermal 9510 mg/kg bw

ATE - Inhalation (Vapours) 3,35 mg/l

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 9510 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 3350 mg/m<sup>3</sup> - Notes: aerosol, 7h

Test: ATE - Route: Oral > 5000 mg/kg

Test: ATE - Route: Inhalation Vapour = 3.35 mg/l - Duration: 7h

Test: ATE - Route: Skin = 9510 mg/kg

reaction mass of

alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and

alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) - Index number: 607-176-00-3

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: OECD 401

Test: LC50 - Route: Inhalation - Species: Rat > 5.8 mg/l - Duration: 4h - Source: OECD 403

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))**  
**LBYH 202 VERT OTAN 10-20UB**

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: OECD 402  
Acetone; propan-2-one; propanone - CAS: 67-64-1

## Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5800 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 76 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit > 15800 mg/kg

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

## Acute toxicity

ATE - Oral 1200 mg/kg bw

ATE - Inhalation (Vapours) 3 mg/l

Test: LD50 - Route: Oral - Species: Rat = 1480 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 400 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat < 2.39 mg/l - Duration: 4h

Test: LC50 - Route: Inhalation - Species: Rat > 2.21 mg/l - Duration: 4h

Test: ATE - Route: Inhalation Vapour = 3 mg/l - Source: (EC) No. 1272/2008

Test: ATE - Route: Oral = 1200 mg/kg - Source: (EC) No. 1272/2008

Test: LD50 - Route: Oral - Species: guinea pig = 1200 mg/kg

Test: LC0 - Route: Inhalation Vapour - Species: guinea pig > 2.25 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: guinea pig > 2000 mg/kg - Source: OECD 402

## STOT-repeated exposure:

Test: LOAEL

- Route: Oral - Species: Rat = 69 mg/kg bw/day - Notes: Subchronic toxicity; Target  
Organs: Liver

Test: LOAEL

- Route: Inhalation - Species: Rat = 0.152 mg/l - Duration: 6 months

2-dimethylaminoethanol; N,N-dimethylethanolamine - CAS: 108-01-0

## Acute toxicity

ATE - Oral 1102,7 mg/kg bw

ATE - Dermal 1100 mg/kg bw

ATE - Inhalation (Vapours) 6,1 mg/l

Test: LC50 - Route: Inhalation Vapour - Species: Rat = 6.1 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit >= 3000 mg/kg

Test: LD50 - Route: Oral - Species: Rat (Male, female) = 1102.7 mg/kg

Test: ATE - Route: Oral = 1102.7 mg/kg

Test: ATE - Route: Skin = 1100 mg/kg

Test: ATE - Route: Inhalation Vapour = 6.1 mg/l

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one - CAS: 2634-33-5

## Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2001 mg/kg

Test: LD50 - Route: Oral - Species: Rat < 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 5 mg/l - Duration: 4h

triethylamine - CAS: 121-44-8

## Acute toxicity

ATE - Oral 730 mg/kg bw

## Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

### LBYH 202 VERT OTAN 10-20UB

ATE - Dermal 580 mg/kg bw

ATE - Inhalation (Vapours) 7,22 mg/l

Test: LD50 - Route: Oral - Species: Rat (Male, female) = 730 mg/kg - Source: OECD 401

Test: LD50 - Route: Skin - Species: Rabbit (male) = 580 mg/kg - Source: OECD 402

Test: LC50 - Route: Inhalation - Species: Rat (Male, female) = 7.22 mg/l - Duration: 4h - Source: OECD 403

Test: ATE - Route: Oral = 730 mg/kg

Test: ATE - Route: Skin = 580 mg/kg

Test: ATE - Route: Inhalation = 7.22 mg/l

octhilonone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT] - CAS: 26530-20-1

Acute toxicity

ATE - Oral 125 mg/kg bw

ATE - Dermal 311 mg/kg bw

ATE - Inhalation (Dust/mist) 0,27 mg/l

Test: ATE - Route: Oral = 125 mg/kg - Source: EC N° 1272/2008

Test: ATE - Route: Inhalation (dust, mist) = 0.27 mg/l - Source: EC N° 1272/2008

Test: ATE - Route: Skin = 311 mg/kg - Source: EC N° 1272/2008

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) - CAS: 55965-84-9

Acute toxicity

ATE - Oral 64 mg/kg bw

ATE - Dermal 87,12 mg/kg bw

ATE - Inhalation (Dust/mist) 0,33 mg/l

Test: LC50 - Route: Inhalation (dust, mist) - Species: Rat = 0.31 mg/l - Duration: 4h

#### 11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

Other toxicological information:

Acetone; propan-2-one; propanone

Skin corrosion / irritation (rabbit):

Slight irritating effect

Severe eye injury/irritation (rabbit):

Irritating effect

-

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

Skin : corrosive (rabbit)

Eyes : corrosive (rabbit)

---

## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

LBYH 202 VERT OTAN 10-20UB



## Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

### LBYH 202 VERT OTAN 10-20UB

Not classified for environmental hazards

Based on available data, the classification criteria are not met

Titanium dioxide - CAS: 13463-67-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: OECD 203 ; Oncorhynchus mykiss

Endpoint: LC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: OECD 202 ; Daphnia magna

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 - Notes: OECD 201 ; Pseudokirchneriella subcapitata

Endpoint: NOEC - Species: Algae >= 100 mg/l - Duration h: 72 - Notes: OECD 201 ; Pseudokirchneriella subcapitata

Endpoint: EC50 - Species: bacteria > 1000 mg/l - Duration h: 3 - Notes: OECD 209 - Activated sludge

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: Poecilia reticulata

Endpoint: LC50 - Species: Daphnia > 1000 mg/l - Duration h: 96 - Notes: Crangon crangon

Endpoint: EC50 - Species: Algae > 969 mg/l

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia > 0.5 mg/l - Duration h: 528 - Notes: LOEC: > 0,5 mg/l, 22 days

e) Plant toxicity:

Endpoint: NOEC = 250000 mg/l

reaction mass of

alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) - Index number: 607-176-00-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 2.8 mg/l - Duration h: 96 - Notes: OCDE 203; ISO 7346; 84/449/CEE, Oncorhynchus mykiss

Endpoint: EC50 - Species: Aquatic invertebrates = 4 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: EC50 - Species: Aquatic plants > 100 mg/l - Duration h: 72 - Notes: OECD 201, Pseudokirchneriella subcapitata

Endpoint: EC10 - Species: Aquatic plants = 100 mg/l - Duration h: 72 - Notes: OECD 201, Pseudokirchneriella subcapitata

Endpoint: EC50 - Species: Microorganisms > 1000 mg/l - Duration h: 3 - Notes: OECD 209 - Activated sludge

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Aquatic invertebrates = 0.78 mg/l - Duration h: 504 - Notes: OECD 202, Daphnia magna

Acetone; propan-2-one; propanone - CAS: 67-64-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: Salmo gairdneri

## Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

### LBYH 202 VERT OTAN 10-20UB

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 96 - Notes: Pseudokirchneriella subcapitata

Endpoint: NOEC - Species: Algae = 430 mg/l - Duration h: 96 - Notes: Prorocentrum minimum, marine water

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 2212 mg/l - Duration h: 672 - Notes: Daphnia pulex 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 24 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: EC50 - Species: Daphnia = 53 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 61 mg/l - Duration h: 48 - Notes: OECD 201; Pseudokirchneriella subcapitata - Test Type: Static Test

Endpoint: EC10 - Species: Algae = 88 mg/l - Duration h: 72 - Notes: OECD 201; Pseudokirchneriella subcapitata - Test Type: Static Test

Endpoint: EC50 - Species: bacteria > 1000 mg/l - Duration h: 3

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 100 mg/l - Duration h: 504 - Notes: Danio rerio (zebra fish) - Semi-static system

Endpoint: NOEC - Species: Daphnia = 100 mg/l - Duration h: 504 - Notes: OECD 211; reproductionb rate - Semi-static system

2-dimethylaminoethanol; N,N-dimethylethanolamine - CAS: 108-01-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 146.63 mg/l - Duration h: 96 - Notes: DIN 38412; Leuciscus idus

Endpoint: EC50 - Species: Aquatic invertebrates = 98.37 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae = 34.47 mg/l - Duration h: 72 - Notes: Desmodesmus subspicatus

Endpoint: EC50 - Species: Microorganisms > 1000 mg/l - Duration h: 0.5 - Notes: OECD 209

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one - CAS: 2634-33-5

a) Aquatic acute toxicity:

Endpoint: EC10 - Species: Algae = 0.04 mg/l - Duration h: 72 - Notes: Selenestrum capricornutum

Endpoint: EC50 - Species: Daphnia = 3.27 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 0.11 mg/l - Duration h: 72 - Notes: Selenestrum capricornutum

Endpoint: LC50 - Species: Fish = 1.6 mg/l - Duration h: 96 - Notes: Rainbow trout

Endpoint: NOEC - Species: Fish = 0.21 mg/l - Notes: Rainbow trout

Endpoint: NOEC - Species: Daphnia = 1.2 mg/l - Duration h: 504 - Notes: 21 jours

triethylamine - CAS: 121-44-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 24 mg/l - Duration h: 96 - Notes: Oryzias latipes; OECD 203

Endpoint: LC50 - Species: Daphnia = 48 mg/l - Duration h: 48 - Notes: Ceriodaphnia dubia; OECD 202

Endpoint: EC50r - Species: Algae = 8 mg/l - Duration h: 72 - Notes: Pseudokirchneriella

## Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

### LBYH 202 VERT OTAN 10-20UB

subcapitata; OECD 201

Endpoint: EC50 - Species: bacteria = 95 mg/l - Duration h: 17 - Notes: Pseudomonas putida; DIN 38412, part 8

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 11 mg/l - Duration h: 504 - Notes: Daphnia magna; OECD 211

octhilineone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT] - CAS: 26530-20-1

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 0.084 mg/l - Duration h: 72 - Notes: OECD 201, Desmodesmus subspicatus

Endpoint: LC50 - Species: Aquatic invertebrates = 0.42 mg/l - Duration h: 48 - Notes: OECD 202, Daphnia magna

Endpoint: IC50 - Species: Fish = 0.036 mg/l - Duration h: 96 - Notes: OECD 203, Oncorhynchus mykiss

Endpoint: NOEC - Species: Algae = 0.004 mg/l - Duration h: 72 - Notes: OECD 201

Endpoint: EC20 - Species: Microorganisms = 10.4 mg/l - Duration h: 0.5 - Notes: TTC-Test (8901 Macherey-Nagel) - Activated sludge

Endpoint: EC20 - Species: Microorganisms = 7.3 mg/l - Duration h: 3 - Notes: OECD 209 - Activated sludge

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Aquatic invertebrates = 0.002 mg/l - Duration h: 504 - Notes: OECD 211, Daphnia magna

Endpoint: NOEC - Species: Fish = 0.022 mg/l - Duration h: 672 - Notes: OECD 210, Oncorhynchus mykiss

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) - CAS: 55965-84-9

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.19 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: EC50 - Species: Daphnia Magna = 0.16 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 27 µg/L - Duration h: 72 - Notes: OECD 201; Pseudokirchneriella subcapitata

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 0.05 mg/l - Duration h: 336 - Notes: Oncorhynchus mykiss

Endpoint: NOEC - Species: Daphnia Magna = 0.1 mg/l - Duration h: 504

#### 12.2. Persistence and degradability

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

Biodegradability: Biodegradability rate - Test: OECD 301F - Duration: 28 days - %: 75

Biodegradability: Biodegradability rate - Test: OECD 302B - Duration: 13 days - %: 93

reaction mass of

alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and

alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionylpoly(oxyethylene) - Index number: 607-176-00-3

Biodegradability: Non-readily biodegradable

Acetone; propan-2-one; propanone - CAS: 67-64-1

Biodegradability: Readily biodegradable - Duration: 28 days - %: 91

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))**  
**LBYH 202 VERT OTAN 10-20UB**

Biodegradability: Chemical Oxygen Demand (COD) - Notes: 2,21 g O<sub>2</sub>/g matière  
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2  
Biodegradability: Biodegradability rate - Duration: 28 days - %: 87  
2-dimethylaminoethanol; N,N-dimethylethanolamine - CAS: 108-01-0  
Biodegradability: Readily biodegradable  
triethylamine - CAS: 121-44-8  
Biodegradability: Readily biodegradable - Test: Aerobic - Duration: 29 days - %: 80.3% - Notes:  
OECD 301 B  
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) - CAS:  
55965-84-9  
Biodegradability: Non-readily biodegradable - Duration: 10 days - %: < 60 %

**12.3. Bioaccumulative potential**

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

Log Pow 1.01

BCF < 100

Acetone; propan-2-one; propanone - CAS: 67-64-1

BCF 3

Log Pow - 0.24 - Notes: 20 °C

Log Kow 0.17 - Notes: 20 °C

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one - CAS: 2634-33-5

Log Kow 0.7

BCF 6.95

triethylamine - CAS: 121-44-8

BCF <0.5 - Duration: 42 days - Notes: Cyprinus carpio; OECD 305 C

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) - CAS:  
55965-84-9

Log Pow 0.401

**12.4. Mobility in soil**

Acetone; propan-2-one; propanone - CAS: 67-64-1

Volatility (H: Henry's Law Constant) 2929-3070 Pa.m<sup>3</sup>/mol - Notes: 25 °C (low volatility)

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Log Koc 2.5

2-dimethylaminoethanol; N,N-dimethylethanolamine - CAS: 108-01-0

Log Koc 0.848

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

vPvB Substances: None - PBT Substances: None

**12.6. Endocrine disrupting properties**

No endocrine disruptor substances present in concentration  $\geq$  0.1%

**12.7. Other adverse effects**

No harmful effects expected.

---

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

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Codes of wastes (Décision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))  
LBYH 202 VERT OTAN 10-20UB**

08 01 11\* wastes of paint and varnish containing organic solvents or other dangerous substances

---

**SECTION 14: Transport information****14.1. UN number or ID number**

Not classified as dangerous in the meaning of ADR, IATA and IMDG transport regulations.

**14.2. UN proper shipping name**

N.A.

**14.3. Transport hazard class(es)**

N.A.

**14.4. Packing group**

N.A.

**14.5. Environmental hazards**

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

**14.6. Special precautions for user**

N.A.

**14.7. Maritime transport in bulk according to IMO instruments**

N.A.

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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

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Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

Restriction 40

Restriction 70

Restriction 75

Listed or in compliance with the following international inventories:

Labelling of detergents (EC Regulations 648/2004 and 907/2006):

N.A.

Labelling of biocides (Regulations 1896/2000, 1687/2002, 2032/2003, 1048/2005, 1849/2006, 1451/2007 and Directive 98/8/EC):

N.A.

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Regulation (EC) n° 528/2012: contains a preservative to protect the initial properties of the treated article.

Contains Reaction mass of 5-chloro-2-methyl-1,2-thiazol-3(2H)-one and 2-methyl-1,2-thiazol-3(2H)-one

Contains othilinone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]

Contains 1,2-benzisothiazol3(2H)-one; 1,2-benzisothiazolin-3-one

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

1999/13/EC (VOC directive)

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

### 15.2. Chemical safety assessment

No

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#### SECTION 16: Other information

N.A.: Not Applicable or Not Available

Full text of phrases referred to in Section 3:

- H317 May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.
- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- H331 Toxic if inhaled.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H226 Flammable liquid and vapour.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H335 May cause respiratory irritation.
- H410 Very toxic to aquatic life with long lasting effects.
- H330 Fatal if inhaled.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- H311 Toxic in contact with skin.
- H301 Toxic if swallowed.
- EUH071 Corrosive to the respiratory tract.
- H310 Fatal in contact with skin.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 2	3.1/2/Dermal	Acute toxicity (dermal), Category 2
Acute Tox. 2	3.1/2/Inhal	Acute toxicity (inhalation), Category 2
Acute Tox. 3	3.1/3/Dermal	Acute toxicity (dermal), Category 3
Acute Tox. 3	3.1/3/Inhal	Acute toxicity (inhalation), Category 3
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4

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Skin Corr. 1	3.2/1	Skin corrosion, Category 1
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Corr. 1C	3.2/1C	Skin corrosion, Category 1C
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

This safety data sheet has been completely updated in compliance to Regulation 2020/878. (EC) 1272/2008 [CLP] Yönetmeliğine göre karisimlerin siniflandirmasini elde etmek için kullanılan siniflandirma ve prosedür:

<b>Classification according to Regulation (EC) Nr. 1272/2008</b>	<b>Classification procedure</b>
Skin Sens. 1, H317	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

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re-transmission of this document, in full or in part, must be limited to clearly identified individuals, either because they use the product, or to provide HSE information. Any communication of this document outside of this framework without our written consent is strictly forbidden.

SOCOMORE strongly advises every recipient of this safety data sheet to read it carefully and to consult experts in the field if necessary or appropriate, in order to understand the information it contains, notably the possible dangers associated with this product. The users must ensure the conformity and completeness of this information with regards to their specific use of the product.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the responsibility of the purchaser/user to ensure that their activities conform with current legislation in force.

The information is considered correct, but it is not exhaustive and it shall be used only as a guide which is based on the current knowledge of the substance or mixture and it is applicable to the safety precautions appropriate for the product.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
STOT SE:	May cause drowsiness or dizziness

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TLV: Threshold Limiting Value.  
TWA: Time-weighted average  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day.  
(ACGIH Standard).  
WGK: German Water Hazard Class.