

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))
LBYH 150 NF 2680 20-40UB PA**

Regulation (EU) n. 2020/878

Safety Data Sheet date: 17/2/2025, version 5**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name: LBYH 150 NF 2680 20-40UB PA
SDS code: 104269EU
UFI: 3QU7-DGVT-KP95-75YP

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

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Competent person responsible for the safety data sheet:

msdsinformation-eu@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.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

DECL10: This titanium dioxide-containing product is not classified as carcinogen by inhalation because it does not meet the criteria stated in Note 10, Annex VI of Regulation (EC) 1272/2008.

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with

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aerodynamic diameter $\leq 10 \mu\text{m}$.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

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:

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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) (CAS 104810-48-2 + CAS 104810-47-1)

tert-butyl perbenzoate: May produce an allergic reaction.

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

octhilinone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]: May produce an allergic reaction.

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:

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Qty	Name	Ident. Number	Classification
>= 15% - < 20%	Titanium dioxide	CAS: 13463-67-7 EC: 236-675-5 REACH No.: 01-2119489379-17	The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).
>= 5% - < 7%	2-butoxyethanol; ethylene glycol monobutyl ether	Index number: 603-014-00-0 CAS: 111-76-2 EC: 203-905-0 REACH No.: 01-2119475108-36	<ul style="list-style-type: none"> ⚠ 3.1/3/Inhal Acute Tox. 3 H331 ⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/2 Eye Irrit. 2 H319 Acute Toxicity Estimate: ATE - Oral 1200 mg/kg bw ATE - Inhalation (Vapours) 3 mg/l
>= 1% - < 3%	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	CAS: 64742-95-6 EC: 918-668-5 REACH No.: 01-2119455851-35	<ul style="list-style-type: none"> ⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.8/3 STOT SE 3 H336 ⚠ 3.8/3 STOT SE 3 H335 ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 4.1/C2 Aquatic Chronic 2 H411 EUH066
>= 1% - < 3%	(2-Methoxymethylethoxy)- propanol	Index number: 603_998_97_1 CAS: 34590-94-8 EC: 252-104-2 REACH No.: 01-2119450011-60	Substance with a Union workplace exposure limit.
>= 0.5% - < 1%	2-dimethylaminoethanol; N,N-dimethylethanolamine	CAS: 108-01-0 EC: 203-542-8 REACH No.: 01-2119492298-24	<ul style="list-style-type: none"> ⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.1/4/Dermal Acute Tox. 4 H312 ⚠ 3.2/1B Skin Corr. 1B H314 ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 3.1/3/Inhal Acute Tox. 3 H331 ⚠ 3.8/3 STOT SE 3 H335 Specific Concentration Limits: C >= 5%: STOT SE 3 H335 Acute Toxicity Estimate: ATE - Oral 1102,7 mg/kg bw ATE - Dermal 1100 mg/kg bw ATE - Inhalation (Vapours) 6,1 mg/l
>= 0.3% - < 0.5%	tert-butyl perbenzoate	CAS: 614-45-9 EC: 210-382-2	<ul style="list-style-type: none"> ⚠ 2.8/C Self-react. C H242 ⚠ 3.1/4/Inhal Acute Tox. 4 H332

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		REACH No.: 01-2119513317-46	<ul style="list-style-type: none"> ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.4.2/1 Skin Sens. 1 H317 ⚠ 4.1/A1 Aquatic Acute 1 H400 4.1/C3 Aquatic Chronic 3 H412 <p>Acute Toxicity Estimate: ATE - Inhalation (Dust/mist) 1,5 mg/l</p>
>= 0.1% - < 0.25%	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) (CAS 104810-48-2 + CAS 104810-47-1)	Index number: 607-176-00-3 EC: 400-830-7	<ul style="list-style-type: none"> ⚠ 3.4.2/1A Skin Sens. 1A H317 ⚠ 4.1/C2 Aquatic Chronic 2 H411
>= 0.1% - < 0.25%	styrene	CAS: 100-42-5 EC: 202-851-5 REACH No.: 01-2119457861-32	<ul style="list-style-type: none"> ⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.7/2 Repr. 2 H361d ⚠ 3.8/3 STOT SE 3 H335 ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 3.9/1 STOT RE 1 H372 4.1/C3 Aquatic Chronic 3 H412 <p>Acute Toxicity Estimate: ATE - Inhalation (Vapours) 11,8 mg/l</p>
>= 0.1% - < 0.25%	Amines, tallow alkyl, ethoxylated	CAS: 61791-26-2 EC: 500-153-8 REACH No.: Exempted----	<ul style="list-style-type: none"> ⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 4.1/A1 Aquatic Acute 1 H400 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/1 Eye Dam. 1 H318
>= 0.1% -	triethylamine	Index number: 612-004-00-5	<ul style="list-style-type: none"> ⚠ 2.6/2 Flam. Liq. 2 H225

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< 0.25%		CAS: 121-44-8 EC: 204-469-4 REACH No.: 01-2119475467-26	<ul style="list-style-type: none"> ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.1/3/Dermal Acute Tox. 3 H311 ⚠ 3.1/3/Inhal Acute Tox. 3 H331 ⚠ 3.2/1A Skin Corr. 1A H314 ⚠ 3.8/3 STOT SE 3 H335 Specific Concentration Limits: C >= 1%: STOT SE 3 H335 Acute Toxicity Estimate: ATE - Oral 730 mg/kg bw ATE - Dermal 580 mg/kg bw ATE - Inhalation (Vapours) 7,22 mg/l
>= 0.1% - < 0.25%	Triméthylolpropane	CAS: 77-99-6 EC: 201-074-9 REACH No.: 01-2119486799-10	<ul style="list-style-type: none"> ⚠ 3.7/2 Repr. 2 H361fd
>= 0.001% - < 0.1%	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	Index number: 613-088-00-6 CAS: 2634-33-5 EC: 220-120-9 REACH No.: 01-2120761540-60	<ul style="list-style-type: none"> ⚠ 3.1/2/Inhal Acute Tox. 2 H330 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 3.4.2/1 Skin Sens. 1 H317 ⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 4.1/A1 Aquatic Acute 1 H400 ⚠ 4.1/C1 Aquatic Chronic 1 H410 Specific Concentration Limits: C >= 0,036%: Skin Sens. 1 H317
>= 0.001% - < 0.1%	octhilinone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]	Index number: 613-112-00-5 CAS: 26530-20-1 EC: 247-761-7	<ul style="list-style-type: none"> ⚠ 3.1/2/Inhal Acute Tox. 2 H330 ⚠ 3.1/3/Dermal Acute Tox. 3 H311 ⚠ 3.1/3/Oral Acute Tox. 3 H301 ⚠ 3.2/1 Skin Corr. 1 H314 ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 3.4.2/1A Skin Sens. 1A H317 ⚠ 4.1/A1 Aquatic Acute 1 H400 M=100. ⚠ 4.1/C1 Aquatic Chronic 1 H410 M=100. EUH071 Specific Concentration Limits: C >= 0,0015%: Skin Sens. 1A H317 Acute Toxicity Estimate: ATE - Oral 125 mg/kg bw ATE - Dermal 311 mg/kg bw

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			ATE - Inhalation (Dust/mist) 0,27 mg/l
>= 0.0005% - < 0.001%	2-METHYL-2H-ISOTHIAZOLE-3-ONE	CAS: 2682-20-4 EC: 220-239-6	<p> ◆ 3.1/2/Inhal Acute Tox. 2 H330 ◆ 3.1/3/Dermal Acute Tox. 3 H311 ◆ 3.1/3/Oral Acute Tox. 3 H301 ◆ 3.2/1B Skin Corr. 1B H314 ◆ 3.3/1 Eye Dam. 1 H318 ◆ 3.4.2/1A Skin Sens. 1A H317 ◆ 4.1/C1 Aquatic Chronic 1 H410 ◆ 4.1/A1 Aquatic Acute 1 H400 M=10. EUH071 Specific Concentration Limits: C >= 0,0015%: Skin Sens. 1A H317 </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.

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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO₂)

Dry powder

Foam.

Extinguishing media which must not be used for safety reasons:

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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.

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

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

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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Occupational exposure limit values

Titanium dioxide - CAS: 13463-67-7

- OEL Type: ACGIH - TWA(8h): 0.2 mg/m³ - Notes: Nanoscale particles; (R); A3 - LRT irr, pneumoconiosis
- OEL Type: National - TWA: 10 mg/m³ - Notes: France (a,TiO₂)
- OEL Type: National - TWA: 5 mg/m³ - Notes: France (a,dust)
- OEL Type: National - TWA: 10 mg/m³ - Notes: Belgium
- OEL Type: National - TWA: 4 mg/m³ - STEL: 12 mg/m³ - Notes: UK
- OEL Type: National - TWA: 10 mg/m³ - Notes: Spain
- OEL Type: National - TWA: 10 mg/m³ - Notes: Portugal
- OEL Type: National - TWA: 6 mg/m³ - Notes: Denmark
- OEL Type: National - TWA: 5 mg/m³ - STEL: 10 mg/m³ - Notes: Austria
- OEL Type: National - TWA: 3 mg/m³ - Notes: Switzerland
- OEL Type: National - TWA: 10 mg/m³ - STEL: 30 mg/m³ - Notes: Poland
- OEL Type: National - TWA: 10 mg/m³ - STEL: 5 mg/m³ - Notes: Norway
- OEL Type: National - TWA: 12 mg/m³ - STEL: 4 mg/m³ - Notes: Ireland
- OEL Type: National - TWA: 5 mg/m³ - Notes: Swedish (NGV) ; Biologiska gränsvärden för yrkesexponering
- OEL Type: ACGIH - TWA(8h): 2.5 mg/m³ - Notes: Finescale particles; (R); A3 - LRT irr, pneumoconiosis

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

- OEL Type: National - TWA(8h): 9.8 mg/m³, 2 ppm - STEL: 147.6 mg/m³, 30 ppm - Notes: France VLEC (Fabricant)
- OEL Type: EU - TWA(8h): 98 mg/m³, 20 ppm - STEL: 246 mg/m³, 50 ppm - Notes: Skin
- OEL Type: ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - Eye and URT irr
- OEL Type: National - TWA: 49 mg/m³, 10 ppm - STEL: 246 mg/m³, 50 ppm - Notes: France VLEC (INRS)
- OEL Type: National - TWA: 49 mg/m³, 10 ppm - Notes: Germany ; TRGS 900 (AGW)

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified - CAS: 64742-95-6

- OEL Type: National - TWA(8h): 150 mg/m³ - Behaviour: Indicative - Notes: France (vapeurs aromatiques)

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

- OEL Type: National - TWA(8h): 310 mg/m³ - Notes: Germany - Notes DFG, EU
- OEL Type: National - TWA(8h): 308 mg/m³, 50 ppm - Behaviour: Binding - Notes: France VLEC - TMP N° 84 (peau)
- OEL Type: EU - TWA(8h): 308 mg/m³, 50 ppm - Notes: Skin
- OEL Type: National - TWA: 270 mg/m³ - STEL: 550 mg/m³ - Notes: Czech Republic
- OEL Type: ACGIH - TWA(8h): 50 ppm - Notes: Liver & CNS eff
- OEL Type: National - TWA(8h): 308 mg/m³, 50 ppm - Notes: UK - Skin
- OEL Type: National - TWA: 307 mg/m³, 50 ppm - STEL(5 min (Mow)): 614 mg/m³, 100 ppm - Notes: Österreich
- OEL Type: National - TWA: 308 mg/m³, 50 ppm - Notes: TWA Poland
- OEL Type: National - TWA: 240 mg/m³ - STEL: 480 mg/m³ - Notes: Poland (NDS, NDSCh)

styrene - CAS: 100-42-5

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- OEL Type: ACGIH - TWA(8h): 10 ppm - STEL: 20 ppm - Notes: OTO, A3, BEI - CNS and hearing impair, URT irr, peripheral neuropathy, visual disorders

- OEL Type: National - TWA: 100 mg/m³, 23.3 ppm - STEL: 200 mg/m³, 46.6 ppm - Behaviour: Binding - Notes: France ; Information supplémentaire: Bruit, Risque de pénétration percutanée

triethylamine - CAS: 121-44-8

- OEL Type: EU - TWA(8h): 8.4 mg/m³, 2 ppm - STEL: 12.6 mg/m³, 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/m³, 1 ppm - STEL: 12.6 mg/m³, 1 ppm - Behaviour: Binding - Notes: France

Triméthylolpropane - CAS: 77-99-6

- OEL Type: National - TWA: 5 ppm - Notes: Croatia

- OEL Type: National - TWA: 5 mg/m³ - Notes: Sweden

DNEL Exposure Limit Values

Titanium dioxide - CAS: 13463-67-7

Worker Industry: 10 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 700 mg/kg b.w./day - Exposure: Human Oral - 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/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 663 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 98 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified - CAS: 64742-95-6

Worker Industry: 25 mg/kg b.w./day - Consumer: 11 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 100 mg/m³ - Consumer: 32 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 11 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

Worker Industry: 310 mg/m³ - Consumer: 37.2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

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

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systemic effects

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

Worker Industry: 7.4 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 22 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 7.4 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 22 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local 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

tert-butyl perbenzoate - CAS: 614-45-9

Worker Industry: 4 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 6.25 mg/kg b.w./day - Exposure: Human Dermal - 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) (CAS 104810-48-2 + CAS 104810-47-1) - Index number: 607-176-00-3

Worker Industry: 0.35 mg/m³ - Consumer: 0.085 mg/m³ - 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

styrene - CAS: 100-42-5

Worker Industry: 289 mg/m³ - Consumer: 174.25 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 306 mg/m³ - Consumer: 182.75 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 85 mg/m³ - Consumer: 10.2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 2.1 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 406 mg/kg b.w./day - Consumer: 343 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

triethylamine - CAS: 121-44-8

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Worker Industry: 8.4 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Triméthylolpropane - CAS: 77-99-6

Worker Industry: 3.3 mg/m³ - Consumer: 0.58 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 0.94 mg/kg - Consumer: 0.34 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 0.34 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

2-METHYL-2H-ISOTHIAZOLE-3-ONE - CAS: 2682-20-4

Worker Industry: 0.021 mg/m³ - Consumer: 0.021 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 0.043 mg/m³ - Consumer: 0.043 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Consumer: 0.027 mg/kg/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 0.053 mg/kg/day - Exposure: Human Oral - Frequency: Short 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-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-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

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

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Target: Soil - Value: 0.0177 mg/kg

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

tert-butyl perbenzoate - CAS: 614-45-9

Target: Fresh Water - Value: 8.8 mg/l

Target: Marine water - Value: 0.88 µg/l

Target: Intermittent discharge - Value: 8 µg/l

Target: Sewage treatment plant - Value: 0.6 mg/l

Target: Freshwater sediments - Value: 0.24 mg/kg dwt

Target: Marine water sediments - Value: 0.024 mg/kg dwt

Target: Soil - Value: 0.043 mg/kg dwt

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) (CAS 104810-48-2 + CAS 104810-47-1) - 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

styrene - CAS: 100-42-5

Target: Fresh Water - Value: 0.028 mg/l

Target: Marine water - Value: 0.014 mg/l

Target: Freshwater sediments - Value: 0.614 mg/kg dwt

Target: Marine water sediments - Value: 0.307 mg/kg dwt

Target: Sewage treatment plant - Value: 5 mg/l

Target: Soil - Value: 0.2 mg/kg dwt

Target: Intermittent discharge - Value: 0.04 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

2-METHYL-2H-ISOTHIAZOLE-3-ONE - CAS: 2682-20-4

Target: Fresh Water - Value: 3.39 µg/l

Target: Marine water - Value: 3.39 µg/l

Target: Sewage treatment plant - Value: 0.23 mg/l

Target: Soil - Value: 0.047 mg/kg

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N.A.

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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

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Grey	--	--
Odour:	Inodore/ Odorless	--	--
Melting point/freezing point:	Not Relevant	--	--
Boiling point or initial boiling point and boiling range:	100°C	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point (°C):	65°C	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	Not Relevant	--	--
pH:	Not Relevant	--	--
Kinematic viscosity:	> 20,5 mm ² / sec (40 °C)	--	--

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Solubility in water:	Miscible	--	--
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:	0.96-1.06 g/cm ³	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

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

Volatile Organic compounds - VOCs = 1.2 %

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:

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Acute toxicity

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Not classified

Based on available data, the classification criteria are not met

ATEmix - Oral 20904,1 mg/kg bw

ATEmix - Dermal 269464 mg/kg bw

ATEmix - Inhalation (Vapours) 48,8924 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

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

Acute toxicity

ATE - Oral 1200 mg/kg bw

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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

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified - CAS:
64742-95-6

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3492 mg/kg

Test: LD50 - Route: Skin - Species: mouse (Male, female) > 2000 mg/kg - Source: OECD
402

Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg - Source: OECD 402

Test: LC50 - Route: Inhalation - Species: Rat (Male, female) > 2 mg/l - Duration: 4h -
Source: OECD 403

Test: LC50 - Route: Inhalation - Species: Rat (Male, female) <= 10 mg/l - Duration: 4h -
Source: OECD 403

Test: LC50 - Route: Inhalation - Species: Rat = 6193 mg/m³ - Duration: 4h - Source:
OECD 403

(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/m³ - 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

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

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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

tert-butyl perbenzoate - CAS: 614-45-9

Acute toxicity

ATE - Inhalation (Dust/mist) 1,5 mg/l

Test: LC50 - Route: Inhalation (dust, mist) - Species: Rat (Male, female) >= 1.01 mg/l - Duration: 4h

Test: LC50 - Route: Inhalation (dust, mist) - Species: mouse (Male, female) <= 4.9 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit (male, female) = 3817 mg/kg

Test: LD50 - Route: Oral - Species: Rat (Male, female) = 4838 mg/kg

Test: ATE - Route: Inhalation (dust, mist) = 1.5 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) (CAS 104810-48-2 + CAS 104810-47-1) - 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

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

styrene - CAS: 100-42-5

Acute toxicity

ATE - Inhalation (Vapours) 11,8 mg/l

Test: LC50 - Route: Inhalation Vapour - Species: Rat = 11800 mg/m³ - Duration: 4h

Test: LC50 - Route: Inhalation Vapour - Species: Rat = 11.8 mg/l - Duration: 4h

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

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

Test: LD50 - Route: Skin - Species: mouse (Male, female) > 2000 mg/kg - Source: OECD 402

Test: ATE - Route: Inhalation Vapour = 11.8

triethylamine - CAS: 121-44-8

Acute toxicity

ATE - Oral 730 mg/kg bw

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 -

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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

Triméthylolpropane - CAS: 77-99-6

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat (male) approx. 14700 mg/kg

Test: LC50 - Route: Inhalation (dust, mist) - Species: Rabbit (male) > 0.85 mg/l - Duration: 4h

Reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rat (Male, female) = 74 mg/kg bw/day - Source:

OECD 416 - Notes: (parents, general toxicity); Doses: 0 - 74 - 225 - 750 mg/kg

Test: NOAEL - Route: Oral - Species: Rat (Male, female) = 225 mg/kg bw/day - Source:

OECD 416 - Notes: (parents, fertility); Doses: 0 - 74 - 225 - 750 mg/kg

Test: NOAEL - Route: Oral - Species: Rat (Male, female) < 74 mg/kg bw/day - Source:

OECD 416 - Notes: (parents, progeny); Doses: 0 - 74 - 225 - 750 mg/kg

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

octhilinone (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

2-METHYL-2H-ISOTHIAZOLE-3-ONE - CAS: 2682-20-4

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 120 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 242 mg/kg

Test: LC50 - Route: Inhalation (aerosol) - Species: Rat = 0.11 mg/l - Duration: 4h

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

11.2. Information on other hazards

Endocrine disrupting properties:

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

Other toxicological information:

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

Skin : corrosive (rabbit)

Eyes : corrosive (rabbit)

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2-METHYL-2H-ISOTHIAZOLE-3-ONE

Skin irritation:

Slight irritation by prolonged contact

Eye irritation:

Severe eye irritation.

Sensitization:

Possible by skin contact

SECTION 12: Ecological information**12.1. Toxicity**

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

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The product is classified: Aquatic Chronic 3 - H412

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-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

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified - CAS: 64742-95-6

a) Aquatic acute toxicity:

Endpoint: EL50

- Species: Algae = 2.6 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

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Endpoint: EL50

- Species: Daphnia Magna = 3.2 mg/l - Duration h: 48 - Notes: OECD 202

Endpoint: LC50 - Species: Fish = 9.2 mg/l - Duration h: 96 - Notes: OECD 203, Oncorhynchus mykiss

Endpoint: EC50 - Species: Aquatic plants = 2.6 mg/l - Duration h: 72 - Notes: OECD 201, Pseudokirchneriella subcapitata

Endpoint: ErL50 - Species: Algae = 2.9 mg/l - Duration h: 72 - Notes: OECD 201, Pseudokirchneriella subcapitata

Endpoint: NOEC - Species: Microorganisms >= 99 mg/l - Duration h: 0.16 - Notes: OECD 209 - Activated sludge

b) Aquatic chronic toxicity:

Endpoint: NOAEL - Species: Daphnia = 2.14 mg/l - Duration h: 504

Endpoint: NOAEL - Species: Fish = 1.23 mg/l - Duration h: 672 - Notes: Oncorhynchus mykiss

Endpoint: NOEC - Species: Fish > 1 mg/l

(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

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

tert-butyl perbenzoate - CAS: 614-45-9

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 0.8 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia = 11 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 1.6 mg/l Fresh Water - Duration h: 96

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) (CAS 104810-48-2 + CAS 104810-47-1) - 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

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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 = 10 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

Endpoint: LC0 - Species: Worm > 1000 mg/kg - Duration h: 336 - Notes: OECD 207, Eisenia foetida

Endpoint: NOEC - Species: Worm = 100 mg/kg - Duration h: 336 - Notes: OECD 207, Eisenia foetida

styrene - CAS: 100-42-5

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 4.9 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia Magna = 4700 µg/l Fresh Water - Duration h: 48

Endpoint: LC50 - Species: Fish = 4020 µg/l Fresh Water - Duration h: 96 - Notes: Pimephales promelas

b) Aquatic chronic toxicity:

Endpoint: EC10 - Species: Algae = 0.28 mg/l Fresh Water - Duration h: 96

Endpoint: NOEC - Species: Daphnia = 1.01 mg/l Fresh Water - Duration h: 504

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 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

Triméthylolpropane - CAS: 77-99-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: EC50 - Species: Aquatic invertebrates = 13000 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: EC50 - Species: Microorganisms > 1000 mg/l - Duration h: 3 - Notes: Directive 67/548/CEE, Annexe V, C.11.

Endpoint: NOEC - Species: Aquatic invertebrates > 1000 mg/l - Duration h: 504 - Notes: Daphnia magna

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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

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

2-METHYL-2H-ISOTHIAZOLE-3-ONE - CAS: 2682-20-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia Magna = 0.998 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 0.157 mg/l - Duration h: 72 - Notes: OECD 201, Pseudokirchneriella subcapitata

Endpoint: EC50 - Species: Algae = 0.0695 mg/l - Duration h: 120 - Notes: Skeletonema costatum

Endpoint: NOEC - Species: Algae = 0.044 mg/l - Duration h: 120 - Notes: Skeletonema costatum

Endpoint: NOAEL - Species: Algae = 0.03 mg/l - Duration h: 0.03 - Notes: OECD 201, Pseudokirchneriella subcapitata

Endpoint: LC50 - Species: Fish = 4.77 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 2.1 mg/l - Duration h: 672 - Notes: OECD 210, Pimephales promelas (

Endpoint: NOEC - Species: Fish = 2.38 mg/l - Duration h: 2352 - Notes: Oncorhynchus mykiss

12.2. Persistence and degradability

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

Biodegradability: Biodegradability rate - Duration: 28 days - %: 87

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified - CAS: 64742-95-6

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Biodegradability: Biodegradation in water - Test: OECD 301F - Duration: 28 days - %: 78%
(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

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

Biodegradability: Persistence

tert-butyl perbenzoate - CAS: 614-45-9

Biodegradability: Readily biodegradable

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) (CAS 104810-48-2 + CAS 104810-47-1)

- Index number: 607-176-00-3

Biodegradability: Non-readily biodegradable

styrene - CAS: 100-42-5

Biodegradability: Readily biodegradable

triethylamine - CAS: 121-44-8

Biodegradability: Readily biodegradable - Test: Aerobic - Duration: 29 days - %: 80.3% - Notes: OECD 301 B

Triméthylolpropane - CAS: 77-99-6

Biodegradability: Intrinsically biodegradable - Test: OECD 302B - Duration: 28 days - %: 100%

2-METHYL-2H-ISOTHIAZOLE-3-ONE - CAS: 2682-20-4

Biodegradability: Persistence - Test: OECD 301B - Duration: 28 days - %: 50 %

12.3. Bioaccumulative potential

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified - CAS: 64742-95-6

Log Pow 3.7 – 4.2

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

Log Pow 1.01

BCF < 100

tert-butyl perbenzoate - CAS: 614-45-9

Log Pow 3

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) (CAS 104810-48-2 + CAS 104810-47-1)

- Index number: 607-176-00-3

BCF - Test: OECD 305 34 - Notes: 502 days; Oncorhynchus mykiss

styrene - CAS: 100-42-5

Log Pow 2.96

BCF 13.49

triethylamine - CAS: 121-44-8

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

Triméthylolpropane - CAS: 77-99-6

BCF < 17 - Duration: 42 days - Notes: Cyprinus carpio (Carpe)

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

Log Kow 0.7

BCF 6.95

2-METHYL-2H-ISOTHIAZOLE-3-ONE - CAS: 2682-20-4

Log Kow - Test: OECD 117 <= 0.32 - Notes: (n-octanol/water) S325 (HPLC) Method)

BCF 5,75 L/kg ww - Notes: Lepomis macrochirus

12.4. Mobility in soil

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 >= 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):

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.

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)

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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)
Regulation (EU) n. 2023/707
Regulation (EU) n. 2023/1434 (ATP 19 CLP)
Regulation (EU) n. 2023/1435 (ATP 20 CLP)

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 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.

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Contains 1,2-benzisothiazol3(2H)-one; 1,2-benzisothiazolin-3-one
Contains octhiline (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]

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

SECTION 16: Other information

N.A.: Not Applicable or Not Available

Full text of phrases referred to in Section 3:

H331 Toxic if inhaled.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H335 May cause respiratory irritation.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H242 Heating may cause a fire.
H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.
H361d Suspected of damaging the unborn child.

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H372 Causes damage to organs (hearing organs) through prolonged or repeated exposure.

H225 Highly flammable liquid and vapour.

H311 Toxic in contact with skin.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H330 Fatal if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

H301 Toxic if swallowed.

EUH071 Corrosive to the respiratory tract.

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
Self-react. C	2.8/C	Self-reactive substance or mixture, Type C
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/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
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 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
Repr. 2	3.7/2	Reproductive toxicity, Category 2

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STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
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
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

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

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	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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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

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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
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.