

# PerlWeiss™ Up White Advanced Whitening (EU GHS (2020/878))

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Revision Date: 20/05/2024 Date of Issue: 23/04/2021

Version: 2.1

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product Identifier

**Product Form** : Mixture  
**Product Name** : PerlWeiss™ Up White Advanced Whitening (EU GHS (2020/878))  
**Product Code** : 300832

#### 1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

##### 1.2.1. Relevant Identified Uses

**Use of the Substance/Mixture** : Toothpaste

##### 1.2.2. Uses Advised Against

**Uses Advised Against** : No uses advised against are specified

#### 1.3. Details of the Supplier of the Safety Data Sheet

##### Company

Murnauer Markenvertrieb GmbH  
Hans-Fleissner-Strasse 80  
63329 Egelsbach  
Germany  
+49 6103-5717-100

[E-Mail: Kundenservice@murnauers.de](mailto:Kundenservice@murnauers.de)

#### 1.4. Emergency Telephone Number

**Emergency Number** : +49 6103-5717-100

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

**Classification According to Regulation (EC) No. 1272/2008**

Eye Irrit. 2 H319

Full text of hazard classes, H-statements: see section 16

#### 2.2. Label Elements

**Labelling According to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard Pictograms (CLP)**



**Signal Word (CLP)**

: Warning

**Hazard Statements (CLP)**

: H319 - Causes serious eye irritation.

**Precautionary Statements (CLP)**

: P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
EUH-statements : EUH208 - Contains Oils, mint, Mentha arvensis piperascens(68917-18-0), Oils, peppermint(8006-90-4), Benzene, 1-methoxy-4-(1-propenyl)-, (E)-(4180-23-8). May produce an allergic reaction.

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2.3. Other Hazards

Other Hazards Not Contributing to the Classification : Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The substance/mixture does not contain substance(s) equal to or greater than 0.1% by weight that are present in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008
Sodium bicarbonate	(CAS-No.) 144-55-8 (EC-No.) 205-633-8	30 - 40	Not classified
Polyethylene glycol	(CAS-No.) 25322-68-3 (EC-No.) 500-038-2	20 - 30	Not classified
Silica, amorphous, precipitated and gel	(CAS-No.) 112926-00-8 (EC-No.) 601-214-2	15 - 25	Not classified
1,2,3-Propanetriol	(CAS-No.) 56-81-5 (EC-No.) 200-289-5	10 - 20	Not classified
Sulfuric acid, calcium salt (1:1)	(CAS-No.) 7778-18-9 (EC-No.) 231-900-3	1 - 5	Acute Tox. 4 (Inhalation), H332
Sodium lauryl sulfate (Surfactant)	(CAS-No.) 151-21-3 (EC-No.) 205-788-1 (REACH-no) 01-2119489461-32	1 - 2	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412
Aluminium oxide (Al2O3)	(CAS-No.) 1344-28-1 (EC-No.) 215-691-6	1 - 5	Not classified
Disodium carbonate	(CAS-No.) 497-19-8 (EC-No.) 207-838-8 (EC Index-No.) 011-005-00-2	0.1 - 0.9	Eye Irrit. 2, H319
Sodium fluoride	(CAS-No.) 7681-49-4 (EC-No.) 231-667-8 (EC Index-No.) 009-004-00-7	0.1 - 0.9	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Oils, mint, Mentha arvensis piperascens	(CAS-No.) 68917-18-0 (EC-No.) 290-058-5; 614-794-7	0.1 - 0.9	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Oils, peppermint	(CAS-No.) 8006-90-4 (EC-No.) 282-015-4; 616-900-7	0.1 - 0.9	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Coconut oil	(CAS-No.) 8001-31-8 (EC-No.) 232-282-8	0.1 - 0.9	Not classified
Benzene, 1-methoxy-4-(1-propenyl)-, (E)-	(CAS-No.) 4180-23-8 (EC-No.) 224-052-0	0.01 - 0.9	Skin Sens. 1, H317
D-Limonene	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7; 601-096-00-2	0.01 - 0.09	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Calcium hydroxide	(CAS-No.) 1305-62-0 (EC-No.) 215-137-3	0.01 - 0.09	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Carbonic acid, calcium salt (1:1)	(CAS-No.) 471-34-1 (EC-No.) 207-439-9	0.01 - 0.09	Not classified
.alpha.-Pinene	(CAS-No.) 80-56-8 (EC-No.) 201-291-9	0.001 - 0.009	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315

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Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008
			Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
L-Limonene	(CAS-No.) 5989-54-8 (EC-No.) 227-815-6 (EC Index-No.) 601-029-00-7	0.001 - 0.009	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

- 4.1. Description of First-aid Measures
- First-Aid Measures General : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-Aid Measures After Inhalation : When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
- First-Aid Measures After Skin Contact : Immediately drench affected area with water for at least 15 minutes. Remove contaminated clothing. Obtain medical attention if irritation develops or persists.
- First-Aid Measures After Eye Contact : Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
- First-Aid Measures After Ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.
- 4.2. Most Important Symptoms and Effects Both Acute and Delayed
- Symptoms/Effects : Causes serious eye irritation.
- Symptoms/Effects After Inhalation : Prolonged exposure may cause irritation.
- Symptoms/Effects After Skin Contact : Prolonged exposure may cause skin irritation.
- Symptoms/Effects After Eye Contact : Contact causes severe irritation with redness and swelling of the conjunctiva.
- Symptoms/Effects After Ingestion : This product is intended for oral use. Ingestion is not expected to be harmful.
- Chronic Symptoms : None known.
- 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed
- If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIREFIGHTING MEASURES

- 5.1. Extinguishing Media
- Suitable Extinguishing Media : Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.
- Unsuitable Extinguishing Media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.
- 5.2. Special Hazards Arising From the Substance or Mixture
- Fire Hazard : Not considered flammable but may burn at high temperatures.
- Explosion Hazard : Product is not explosive.
- Reactivity : Hazardous reactions will not occur under normal conditions.
- Hazardous Combustion Products : Acrolein. Carbon oxides (CO, CO<sub>2</sub>). Sodium oxides.
- 5.3. Advice for Firefighters
- Precautionary Measures Fire : Exercise caution when fighting any chemical fire.
- Firefighting Instructions : Use water spray or fog for cooling exposed containers.
- Protection During Firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. Personal Precautions, Protective Equipment and Emergency Procedures
- General Measures : Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.
- 6.1.1. For Non-Emergency Personnel
- Protective Equipment : Use appropriate personal protective equipment (PPE).
- Emergency Procedures : Evacuate unnecessary personnel.
- 6.1.2. For Emergency Responders
- Protective Equipment : Equip cleanup crew with proper protection.
- Emergency Procedures : Upon arrival at the scene, a first responder is expected to recognise the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

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- 6.2. Environmental Precautions

Prevent entry to sewers and public waters.
- 6.3. Methods and Materials for Containment and Cleaning Up

For Containment

Methods for Cleaning Up

: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.

: Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.
- 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for Safe Handling

Precautions for Safe Handling

Hygiene Measures

: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

: Handle in accordance with good industrial hygiene and safety procedures.
- 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures

Storage Conditions

: Comply with applicable regulations.

: Store in accordance with applicable national storage class systems. Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.
- Incompatible Materials

: Strong acids. Strong oxidisers.
- 7.3. Specific End Use(s)

Toothpaste

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. Control Parameters

Please see section 16 for the legal basis of limit value information in section 8.1, including the national legislation or provision which gives rise to a given limit.

1,2,3-Propanetriol (56-81-5)		
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	10 mg/m³ (mist)
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	10 mg/m³
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	10 mg/m³
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	10 mg/m³
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	20 mg/m³
France	OEL TWA (Legal Basis:INRS ED 984)	10 mg/m³ (aerosol)
Germany	OEL TWA (Legal Basis:TRGS 900)	200 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Greece	OEL TWA (Legal Basis:PWHE)	10 mg/m³
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	10 mg/m³ (inhalable fraction)
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	10 mg/m³ (mist)
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	11 mg/m³
Slovenia	OEL TWA (Legal Basis:No. 79/19)	200 mg/m³ (inhalable fraction)
Slovenia	OEL STEL (Legal Basis:No. 79/19)	400 mg/m³ (inhalable fraction)
Spain	OEL TWA (Legal Basis:OELCAIS)	10 mg/m³ (mist)
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	100 mg/m³ (inhalable dust)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	50 mg/m³ (inhalable dust)
Sodium bicarbonate (144-55-8)		
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	5 mg/m³
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	5 mg/m³
Sodium fluoride (7681-49-4)		
France	OEL TWA (Legal Basis:INRS ED 984)	2 mg/m³
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	0,2 mg/m³ (Hydrofluoric acid salts)
Silica, amorphous, precipitated and gel (112926-00-8)		
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	4 mg/m³ (inhalable fraction (Silica, amorphous)
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	10 mg/m³

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<b>Silica, amorphous, precipitated and gel (112926-00-8)</b>		
<b>Bulgaria</b>	OEL TWA (Legal Basis:Reg. No. 13/10)	10 mg/m <sup>3</sup> (inhalable fraction (free Silicon dioxide, amorphous, synthetic, derived from sedimentation processes))
<b>Finland</b>	OEL TWA (Legal Basis:HTP-ARVOT 2020)	5 mg/m <sup>3</sup> (Silicon dioxide, amorphous)
<b>Poland</b>	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	10 mg/m <sup>3</sup> (inhalable fraction) 2 mg/m <sup>3</sup> (respirable fraction)
<b>Disodium carbonate (497-19-8)</b>		
<b>Czech Republic</b>	OEL TWA (Legal Basis:Reg. 41/2020)	5 mg/m <sup>3</sup>
<b>Romania</b>	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	1 mg/m <sup>3</sup>
<b>Romania</b>	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	3 mg/m <sup>3</sup>
<b>Sulfuric acid, calcium salt (1:1) (7778-18-9)</b>		
<b>Austria</b>	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	5 mg/m <sup>3</sup> (respirable fraction)
<b>Austria</b>	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	10 mg/m <sup>3</sup> (respirable fraction)
<b>Belgium</b>	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	10 mg/m <sup>3</sup>
<b>Bulgaria</b>	OEL TWA (Legal Basis:Reg. No. 13/10)	10 mg/m <sup>3</sup>
<b>France</b>	OEL TWA (Legal Basis:INRS ED 984)	10 mg/m <sup>3</sup>
<b>Germany</b>	OEL TWA (Legal Basis:TRGS 900)	6 mg/m <sup>3</sup> (respirable fraction)
<b>Hungary</b>	OEL TWA (Legal Basis:Decree No. 05/2020)	4 mg/m <sup>3</sup> 1,5 mg/m <sup>3</sup> (respirable dust)
<b>Ireland</b>	OEL TWA (Legal Basis:2020 COP)	10 mg/m <sup>3</sup>
<b>Ireland</b>	OEL STEL (Legal Basis:2020 COP)	30 mg/m <sup>3</sup> (calculated)
<b>USA ACGIH</b>	OEL TWA (Legal Basis:IMDFN1)	10 mg/m <sup>3</sup> (inhalable particulate matter)
<b>Latvia</b>	OEL TWA (Legal Basis:Reg. No. 325)	4 mg/m <sup>3</sup> (hydrogenated-plaster dust)
<b>Poland</b>	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	10 mg/m <sup>3</sup> (Gypsum-inhalable fraction)
<b>Portugal</b>	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	10 mg/m <sup>3</sup> (inhalable fraction)
<b>Slovakia</b>	OEL TWA (Legal Basis:Gov. Decree 33/2018)	4 mg/m <sup>3</sup> (inhalable fraction) 1,5 mg/m <sup>3</sup> (gypsum)
<b>Slovenia</b>	OEL TWA (Legal Basis:No. 79/19)	6 mg/m <sup>3</sup> (respirable fraction)
<b>Spain</b>	OEL TWA (Legal Basis:OELCAIS)	10 mg/m <sup>3</sup> (this value is for the particulate matter that is free from Asbestos and contains less than 1% of crystalline Silica)
<b>Switzerland</b>	OEL TWA (Legal Basis:OLVSNAIF)	3 mg/m <sup>3</sup> (respirable dust)
<b>Carbonic acid, calcium salt (1:1) (471-34-1)</b>		
<b>Croatia</b>	OEL TWA (Legal Basis:OG No. 91/2018)	10 mg/m <sup>3</sup> (total dust, inhalable particles) 4 mg/m <sup>3</sup> (respirable dust)
<b>France</b>	OEL TWA (Legal Basis:INRS ED 984)	10 mg/m <sup>3</sup>
<b>Latvia</b>	OEL TWA (Legal Basis:Reg. No. 325)	6 mg/m <sup>3</sup>
<b>Poland</b>	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	10 mg/m <sup>3</sup> (inhalable fraction)
<b>Portugal</b>	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	10 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica)
<b>Switzerland</b>	OEL TWA (Legal Basis:OLVSNAIF)	3 mg/m <sup>3</sup> (respirable dust)
<b>Calcium hydroxide (1305-62-0)</b>		
<b>EU</b>	IOELV TWA (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	1 mg/m <sup>3</sup> (respirable fraction)
<b>EU</b>	IOELV STEL (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	4 mg/m <sup>3</sup> (respirable fraction)
<b>Austria</b>	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	1 mg/m <sup>3</sup> (inhalable fraction)
<b>Austria</b>	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	4 mg/m <sup>3</sup> (inhalable fraction)
<b>Belgium</b>	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	1 mg/m <sup>3</sup> (alveolar fraction)
<b>Belgium</b>	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	4 mg/m <sup>3</sup>
<b>Bulgaria</b>	OEL TWA (Legal Basis:Reg. No. 13/10)	1 mg/m <sup>3</sup> (respirable fraction)
<b>Bulgaria</b>	OEL STEL (Legal Basis:Reg. No. 13/10)	4 mg/m <sup>3</sup> (respirable fraction)
<b>Croatia</b>	OEL TWA (Legal Basis:OG No. 91/2018)	1 mg/m <sup>3</sup> (respirable dust, inhalable fraction)
<b>Croatia</b>	OEL STEL (Legal Basis:OG No. 91/2018)	4 mg/m <sup>3</sup> (respirable dust; inhalable fraction)
<b>Cyprus</b>	OEL TWA (Legal Basis:KDP 16/2019)	1 mg/m <sup>3</sup> (respirable fraction)
<b>Cyprus</b>	OEL STEL (Legal Basis:KDP 16/2019)	4 mg/m <sup>3</sup> (respirable fraction)
<b>Czech Republic</b>	OEL TWA (Legal Basis:Reg. 41/2020)	1 mg/m <sup>3</sup> (respirable fraction of aerosol)
<b>Denmark</b>	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	1 mg/m <sup>3</sup> (respirable fraction) 5 mg/m <sup>3</sup>
<b>Estonia</b>	OEL TWA (Legal Basis:Regulation No. 105)	1 mg/m <sup>3</sup>
<b>Estonia</b>	OEL STEL (Legal Basis:Regulation No. 105)	4 mg/m <sup>3</sup>
<b>Finland</b>	OEL TWA (Legal Basis:HTP-ARVOT 2020)	1 mg/m <sup>3</sup>

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<b>Calcium hydroxide (1305-62-0)</b>		
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	4 mg/m <sup>3</sup>
France	OEL TWA (Legal Basis:INRS ED 984)	5 mg/m <sup>3</sup>
Germany	OEL TWA (Legal Basis:TRGS 900)	1 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Gibraltar	OEL TWA (Legal Basis:LN. 2018/181)	1 mg/m <sup>3</sup> (respirable fraction)
Gibraltar	OEL STEL (Legal Basis:LN. 2018/181)	4 mg/m <sup>3</sup> (respirable fraction)
Greece	OEL TWA (Legal Basis:PWHSSE)	1 mg/m <sup>3</sup> (respirable fraction)
Greece	OEL STEL (Legal Basis:PWHSSE)	4 mg/m <sup>3</sup> (respirable fraction)
Hungary	OEL TWA (Legal Basis:Decree No. 05/2020)	1 mg/m <sup>3</sup> (respirable dust)
Hungary	OEL STEL (Legal Basis:Decree No. 05/2020)	4 mg/m <sup>3</sup>
Ireland	OEL TWA (Legal Basis:2020 COP)	1 mg/m <sup>3</sup> (respirable dust)
Ireland	OEL STEL (Legal Basis:2020 COP)	4 mg/m <sup>3</sup> (respirable dust)
USA ACGIH	OEL TWA (Legal Basis:IMDFN1)	5 mg/m <sup>3</sup>
Italy	OEL TWA (Legal Basis:Decree 81)	1 mg/m <sup>3</sup> (respirable fraction)
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	1 mg/m <sup>3</sup> (respirable fraction)
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	1 mg/m <sup>3</sup> (respirable fraction)
Lithuania	OEL STEL (Legal Basis:HN 23:2011)	4 mg/m <sup>3</sup> (respirable fraction)
Lithuania	OEL Chemical Category (Legal Basis:HN 23:2011)	Skin notation respirable fraction
Luxembourg	OEL TWA (Legal Basis:A-N 684)	1 mg/m <sup>3</sup> (inhalable fraction)
Malta	OEL TWA (Legal Basis:MOHSAA Ch. 424)	1 mg/m <sup>3</sup> (respirable fraction)
Malta	OEL STEL (Legal Basis:MOHSAA Ch. 424)	4 mg/m <sup>3</sup> (respirable fraction)
Netherlands	OEL TWA (Legal Basis:OWCRLV)	1 mg/m <sup>3</sup> (respirable fraction)
Netherlands	OEL STEL (Legal Basis:OWCRLV)	4 mg/m <sup>3</sup> (respirable dust)
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	1 mg/m <sup>3</sup> (respirable dust)
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	4 mg/m <sup>3</sup> (value from the regulation-respirable dust)
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	2 mg/m <sup>3</sup> (inhalable fraction) 1 mg/m <sup>3</sup> (respirable fraction)
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	4 mg/m <sup>3</sup> (respirable fraction) 6 mg/m <sup>3</sup> (inhalable fraction)
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	1 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014)	4 mg/m <sup>3</sup> (breathable fraction)
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	1 mg/m <sup>3</sup> (for gaseous or vapor phase chemicals, the limit value is expressed at 20°C and 101.3 kPa-respirable fraction)
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	4 mg/m <sup>3</sup> (for gaseous or vapor phase chemicals, the limit value is expressed at 20°C and 101.3 kPa-respirable fraction)
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	5 mg/m <sup>3</sup> (respirable fraction)
Slovenia	OEL TWA (Legal Basis:No. 79/19)	1 mg/m <sup>3</sup> (respirable fraction)
Slovenia	OEL STEL (Legal Basis:No. 79/19)	4 mg/m <sup>3</sup> (respirable fraction)
Spain	OEL TWA (Legal Basis:OELCAIS)	1 mg/m <sup>3</sup> (respirable fraction)
Spain	OEL STEL (Legal Basis:OELCAIS)	4 mg/m <sup>3</sup> (respirable fraction)
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	1 mg/m <sup>3</sup> (respirable fraction)
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	4 mg/m <sup>3</sup> (respirable fraction)
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	4 mg/m <sup>3</sup> (inhalable dust)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	1 mg/m <sup>3</sup> (inhalable dust)
<b>Coconut oil (8001-31-8)</b>		
Germany	OEL TWA (Legal Basis:TRGS 900)	5 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	5 mg/m <sup>3</sup> (inhalable dust)
<b>D-Limonene (5989-27-5)</b>		
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	140 mg/m <sup>3</sup>
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	25 ppm
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	280 mg/m <sup>3</sup>
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	50 ppm
Germany	OEL TWA (Legal Basis:TRGS 900)	28 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	OEL TWA (Legal Basis:TRGS 900)	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	OEL Chemical Category (Legal Basis:TRGS 900)	Skin notation, Skin sensitization

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<b>D-Limonene (5989-27-5)</b>		
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	140 mg/m <sup>3</sup>
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	25 ppm
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	175 mg/m <sup>3</sup> (value calculated)
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	37,5 ppm (value calculated)
Norway	OEL Chemical Category (Legal Basis:FOR-2020-04-06-695)	Allergenic substance
Slovenia	OEL TWA (Legal Basis:No. 79/19)	28 mg/m <sup>3</sup>
Slovenia	OEL TWA (Legal Basis:No. 79/19)	5 ppm
Slovenia	OEL STEL (Legal Basis:No. 79/19)	112 mg/m <sup>3</sup>
Slovenia	OEL STEL (Legal Basis:No. 79/19)	20 ppm
Slovenia	OEL Chemical Category (Legal Basis:No. 79/19)	Potential for cutaneous absorption
Spain	OEL TWA (Legal Basis:OELCAIS)	168 mg/m <sup>3</sup>
Spain	OEL TWA (Legal Basis:OELCAIS)	30 ppm
Spain	OEL Chemical Category (Legal Basis:OELCAIS)	Sensitizer, skin - potential for cutaneous absorption
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	80 mg/m <sup>3</sup>
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	14 ppm
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	40 mg/m <sup>3</sup>
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	7 ppm
Switzerland	OEL Chemical Category (Legal Basis:OLVSNAIF)	Sensitizer
<b>.alpha.-Pinene (80-56-8)</b>		
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	20 ppm
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	150 mg/m <sup>3</sup>
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	25 ppm
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	300 mg/m <sup>3</sup>
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	50 ppm
USA ACGIH	OEL TWA (Legal Basis:IMDFN1)	20 ppm (Turpentine and selected monoterpenes)
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	150 mg/m <sup>3</sup>
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	25 ppm
Lithuania	OEL STEL (Legal Basis:HN 23:2011)	300 mg/m <sup>3</sup>
Lithuania	OEL STEL (Legal Basis:A-N 684)	50 ppm
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	140 mg/m <sup>3</sup>
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	25 ppm
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	175 mg/m <sup>3</sup> (value calculated)
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	37,5 ppm (value calculated)
Norway	OEL Chemical Category (Legal Basis:FOR-2020-04-06-695)	Skin notation
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	20 ppm (Turpentine and selected Monoterpenes)
Portugal	OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014)	Sensitizer,A4 - Not Classifiable as a Human Carcinogen
Spain	OEL TWA (Legal Basis:OELCAIS)	113 mg/m <sup>3</sup>
Spain	OEL TWA (Legal Basis:OELCAIS)	20 ppm
Spain	OEL Chemical Category (Legal Basis:OELCAIS)	Sensitizer
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	150 mg/m <sup>3</sup>
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	25 ppm
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	300 mg/m <sup>3</sup>
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	50 ppm
Sweden	OEL Chemical Category (Legal Basis:AFS 2018:1)	Sensitizer
<b>L-Limonene (5989-54-8)</b>		
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	140 mg/m <sup>3</sup>
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	25 ppm
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	175 mg/m <sup>3</sup> (value calculated)
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	37,5 ppm (value calculated)
<b>Polyethylene glycol (25322-68-3)</b>		
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	1000 mg/m <sup>3</sup> (average molecular weight 200-400-inhalable fraction)
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	4000 mg/m <sup>3</sup> (average molecular weight 200-400-inhalable fraction)
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	1000 mg/m <sup>3</sup> (average molecular weight of 200-600)
Germany	OEL TWA (Legal Basis:TRGS 900)	200 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)

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Polyethylene glycol (25322-68-3)		
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	1000 mg/m <sup>3</sup>
Slovenia	OEL TWA (Legal Basis:No. 79/19)	1000 mg/m <sup>3</sup> (average MW 200-400-inhalable fraction)
Slovenia	OEL STEL (Legal Basis:No. 79/19)	8000 mg/m <sup>3</sup> (average MW 200-400-inhalable fraction)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	500 mg/m <sup>3</sup>
Aluminium oxide (Al <sub>2</sub> O <sub>3</sub> ) (1344-28-1)		
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	5 mg/m <sup>3</sup> (respirable fraction, smoke)
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	10 mg/m <sup>3</sup> (respirable fraction) 10 mg/m <sup>3</sup> (respirable fraction, smoke)
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	1 mg/m <sup>3</sup>
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	10 mg/m <sup>3</sup> (total dust, inhalable particles) 4 mg/m <sup>3</sup> (respirable dust)
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	5 mg/m <sup>3</sup> (total) 2 mg/m <sup>3</sup> (respirable)
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	10 mg/m <sup>3</sup> (total dust) 4 mg/m <sup>3</sup> (respirable dust)
France	OEL TWA (Legal Basis:INRS ED 984)	10 mg/m <sup>3</sup>
Germany	OEL TWA (Legal Basis:TRGS 900)	1,25 mg/m <sup>3</sup> (fiber-free, except Aluminium oxide smoke-respirable fraction (dust)) 10 mg/m <sup>3</sup> (fiber-free, except Aluminium oxide smoke-inhalable fraction (dust))
Greece	OEL TWA (Legal Basis:PWHE)	10 mg/m <sup>3</sup> (inhalable fraction) 5 mg/m <sup>3</sup> (respirable fraction)
Hungary	OEL TWA (Legal Basis:Decree No. 05/2020)	5 mg/m <sup>3</sup> 2 mg/m <sup>3</sup> (respirable dust)
USA ACGIH	OEL TWA (Legal Basis:IMDFN1)	10 mg/m <sup>3</sup>
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	6 mg/m <sup>3</sup> (disintegration aerosol)
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	5 mg/m <sup>3</sup> (inhalable fraction) 2 mg/m <sup>3</sup> (respirable fraction)
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	10 mg/m <sup>3</sup> (set equal to the limit value for Nuisance dust)
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	20 mg/m <sup>3</sup> (set equal to the limit value for Nuisance dust)
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	2,5 mg/m <sup>3</sup> (inhalable fraction) 1,2 mg/m <sup>3</sup> (respirable fraction)
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	10 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica)
Portugal	OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014)	A4 - Not Classifiable as a Human Carcinogen
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	2 mg/m <sup>3</sup> (aerosols) 3 mg/m <sup>3</sup> (dust (Aluminium and Aluminium oxides)) 1 mg/m <sup>3</sup> (fume (Aluminium and Aluminium oxides))
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	5 mg/m <sup>3</sup> (aerosols) 10 mg/m <sup>3</sup> (dust (Aluminium and Aluminium oxides)) 3 mg/m <sup>3</sup> (fume (Aluminium and Aluminium oxides))
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	4 mg/m <sup>3</sup> (inhalable dust) 1,5 mg/m <sup>3</sup> (respirable dust)
Spain	OEL TWA (Legal Basis:OELCAIS)	10 mg/m <sup>3</sup>
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	5 mg/m <sup>3</sup> (total dust) 2 mg/m <sup>3</sup> (respirable fraction)
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	24 mg/m <sup>3</sup> (respirable dust, smoke)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	3 mg/m <sup>3</sup> (respirable dust, smoke)
Switzerland	OEL BLV (Legal Basis:OLVSNAIF)	50 µg/g creatinine Parameter: Aluminium - Medium: urine - Sampling time: after several shifts (for long-term exposures)

## 8.2. Exposure Controls

### Appropriate Engineering Controls

: For occupational/workplace settings: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

### Personal Protective Equipment

: For occupational/workplace settings and bulk quantities: Gloves. Protective clothing. Protective goggles. Personal protective equipment should be chosen in accordance with Regulation (EU) 2016/425, CEN standards, and in discussion with the supplier of the protective equipment.



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<b>Materials for Protective Clothing</b>	: For occupational/workplace settings: Chemically resistant materials and fabrics.
<b>Hand Protection</b>	: For occupational/workplace settings: Wear protective gloves.
<b>Eye Protection</b>	: For occupational/workplace settings: Chemical safety goggles.
<b>Skin and Body Protection</b>	: For occupational/workplace settings: Wear suitable protective clothing.
<b>Respiratory Protection</b>	: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

<b>Physical State</b>	: Solid
<b>Colour, Appearance</b>	: Off-white paste White.
<b>Odour</b>	: No data available
<b>Odour Threshold</b>	: No data available
<b>pH</b>	: 8 – 8,7 (10% dispersion)
<b>pH solution</b>	: No data available
<b>Evaporation Rate</b>	: No data available
<b>Melting Point</b>	: No data available
<b>Freezing Point</b>	: No data available
<b>Boiling Point</b>	: No data available
<b>Flash Point</b>	: No data available
<b>Auto-Ignition Temperature</b>	: No data available
<b>Decomposition Temperature</b>	: No data available
<b>Flammability</b>	: No data available
<b>Vapour Pressure</b>	: No data available
<b>Relative Vapour Density At 20 °C</b>	: No data available
<b>Relative Density</b>	: $\geq 1,55$ (water = 1)
<b>Solubility</b>	: No data available
<b>Partition Coefficient n-Octanol/Water</b>	: No data available
<b>Viscosity</b>	: 100 – 400 kCp
<b>Explosive Properties</b>	: No data available
<b>Oxidising Properties</b>	: No data available
<b>Explosive Limits</b>	: No data available
<b>Particle Size</b>	: No data available
<b>Particle Size Distribution</b>	: No data available
<b>Particle Shape</b>	: No data available
<b>Particle Aspect Ratio</b>	: No data available
<b>Particle Aggregation State</b>	: No data available
<b>Particle Agglomeration State</b>	: No data available
<b>Particle Specific Surface Area</b>	: No data available
<b>Particle Dustiness</b>	: No data available

### 9.2. Other Information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

### 10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

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### 10.5. Incompatible Materials

Strong acids. Strong oxidisers.

### 10.6. Hazardous Decomposition Products

Not expected to decompose under ambient conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information On Hazard Classes As Defined In Regulation (EC) No 1272/2008

Likely Routes of Exposure	: Dermal; Eye contact; Ingestion
Acute Toxicity (Oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute Toxicity (Dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute Toxicity (Inhalation)	: Not classified (Based on available data, the classification criteria are not met)

1,2,3-Propanetriol (56-81-5)	
LD50 Oral Rat	12600 mg/kg
LD50 Dermal Rabbit	> 10 g/kg
Sodium bicarbonate (144-55-8)	
LD50 Oral Rat	7334 mg/kg
Sodium fluoride (7681-49-4)	
LD50 Oral Rat	148,5 mg/kg
LD50 Oral	69 mg/kg
LD50 Dermal Rat	> 2000 mg/kg (no details given)
Disodium carbonate (497-19-8)	
LD50 Oral Rat	2800 mg/kg
LD50 Oral	2800 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg (No deaths)
LC50 Inhalation Rat	2300 mg/m <sup>3</sup> (Exposure time: 2 h - no deaths)
Sulfuric acid, calcium salt (1:1) (7778-18-9)	
LD50 Oral Rat	> 3000 mg/kg No mortalities
LC50 Inhalation Rat	> 3,26 mg/l/4h No mortalities
ATE CLP (dust,mist)	1,50 mg/l/4h
Carbonic acid, calcium salt (1:1) (471-34-1)	
LD50 Oral Rat	6450 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
Calcium hydroxide (1305-62-0)	
LD50 Oral Rat	7340 mg/kg
LD50 Dermal Rat	> 2500 mg/kg
LC50 Inhalation Rat	> 6,04 mg/l/4h
Sodium lauryl sulfate (151-21-3)	
LD50 Oral Rat	500 – 2000 mg/kg OECD Guideline 401
LD50 Oral	1200 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
ATE CLP (Inhalation)	1,50 mg/l/4h
Coconut oil (8001-31-8)	
LD50 Oral Rat	> 5000 mg/kg
Oils, mint, Mentha arvensis piperascens (68917-18-0)	
LD50 Oral Rat	1240 mg/kg
Oils, peppermint (8006-90-4)	
LD50 Oral Rat	2426 mg/kg
Benzene, 1-methoxy-4-(1-propenyl)-, (E)- (4180-23-8)	
LD50 Oral Rat	2090 mg/kg
LD50 Dermal Rabbit	> 4900 mg/kg
LC50 Inhalation Rat	> 5,1 mg/l/4h
D-Limonene (5989-27-5)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 5 g/kg
.alpha.-Pinene (80-56-8)	
LD50 Oral Rat	> 500 mg/kg

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<b>.alpha.-Pinene (80-56-8)</b>	
LD50 Oral	3700 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
<b>Polyethylene glycol (25322-68-3)</b>	
LD50 Oral Rat	22 g/kg
LD50 Dermal Rabbit	> 20 g/kg
<b>Aluminium oxide (Al2O3) (1344-28-1)</b>	
LD50 Oral Rat	> 15900 mg/kg
<b>Skin Corrosion/Irritation</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Eye Damage/Irritation</b>	: Causes serious eye irritation.
<b>Respiratory or Skin Sensitization</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Germ Cell Mutagenicity</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Carcinogenicity</b>	: Not classified (Based on available data, the classification criteria are not met)

<b>D-Limonene (5989-27-5)</b>	
<b>National Toxicology Program (NTP) Status</b>	Evidence of Carcinogenicity.
<b>Reproductive Toxicity</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Specific Target Organ Toxicity (Single Exposure)</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Aspiration Hazard</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Symptoms/Injuries After Inhalation</b>	: Prolonged exposure may cause irritation.
<b>Symptoms/Injuries After Skin Contact</b>	: Prolonged exposure may cause skin irritation.
<b>Symptoms/Injuries After Eye Contact</b>	: Contact causes severe irritation with redness and swelling of the conjunctiva.
<b>Symptoms/Injuries After Ingestion</b>	: This product is intended for oral use. Ingestion is not expected to be harmful.
<b>Chronic Symptoms</b>	: None known.

### 11.2. Information On Other Hazards

Based on available data this substance/the substances in this mixture not listed below do(es) not have endocrine disrupting properties with respect to humans as it does not meet the criteria set out in section A of Regulation (EU) No 2017/2100 and/or the criteria set out in Regulation (EU) 2018/605, or the substance(s) are not required to be disclosed.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

<b>Hazardous To The Aquatic Environment, Short-Term (Acute)</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Hazardous To The Aquatic Environment, Long-Term (Chronic)</b>	: Not classified (Based on available data, the classification criteria are not met)

<b>1,2,3-Propanetriol (56-81-5)</b>	
LC50 - Fish	51000 – 57000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
<b>Sodium bicarbonate (144-55-8)</b>	
LC50 - Fish [1]	7100 mg/l Bluegill
EC50 - Crustacea [1]	4100 mg/l Daphnids
LC50 - Fish [2]	7700 mg/l Rainbow Trout
<b>Sodium fluoride (7681-49-4)</b>	
LC50 - Fish [1]	> 530 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
EC50 - Crustacea [1]	338 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	830 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [semi-static])
EC50 - Crustacea [2]	98 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC - Chronic Crustacea	8,2 mg/l
<b>Silica, amorphous, precipitated and gel (112926-00-8)</b>	
LC50 - Fish	10000 mg/l
<b>Sodium carbonate (497-19-8)</b>	
LC50 - Fish [1]	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	310 – 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

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Sulfuric acid, calcium salt (1:1) (7778-18-9)	
LC50 - Fish [1]	2980 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 - Fish [2]	> 1970 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
Sodium lauryl sulfate (151-21-3)	
LC50 - Fish	10 – 100 mg/l
NOEC - Chronic Crustacea	0,88 mg/l
Oils, peppermint (8006-90-4)	
LC50 - Fish	3,4 mg/l (QSAR predicition)
Benzene, 1-methoxy-4-(1-propenyl)-, (E)- (4180-23-8)	
LC50 - Fish [1]	7 mg/l (Exposure time: 96 h - Species: Danio rerio)
EC50 - Crustacea [1]	4,25 mg/l (Exposure time: 48 h - Species: Daphnia magna)
D-Limonene (5989-27-5)	
LC50 - Fish [1]	0,619 – 0,796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea	0,421 mg/l
LC50 - Fish [2]	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
.alpha.-Pinene (80-56-8)	
LC50 - Fish	0,28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea	41 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Aluminium oxide (Al2O3) (1344-28-1)	
LC50 - Fish	> 100 mg/l
EC50 - Crustacea	> 100 mg/l
ErC50 - Algae	> 100 mg/l
NOEC (acute)	> 50 mg/l

## 12.2. Persistence and Degradability

PerlWeiss™ Up White Advanced Whitening (EU GHS (2020/878))	
Persistence and Degradability	Not established.

## 12.3. Bioaccumulative Potential

PerlWeiss™ Up White Advanced Whitening (EU GHS (2020/878))	
Bioaccumulative Potential	Not established.
1,2,3-Propanetriol (56-81-5)	
BCF Fish	No bioaccumulation
Log POW	-1,75 at 25 °C (at pH 7.4)
Sodium carbonate (497-19-8)	
BCF Fish	No bioaccumulation
Carbonic acid, calcium salt (1:1) (471-34-1)	
BCF Fish	No bioaccumulation
Calcium hydroxide (1305-62-0)	
BCF Fish	No bioaccumulation
Sodium lauryl sulfate (151-21-3)	
BCF Fish	Will not bioconcentrate
Log POW	1,6
D-Limonene (5989-27-5)	
Log POW	4,38 at 37 °C (at pH 7.2)
.alpha.-Pinene (80-56-8)	
Log POW	4,1
L-Limonene (5989-54-8)	
Log POW	4,38 at 37 °C (at pH 7.2)

## 12.4. Mobility in Soil

No additional information available

## 12.5. Results of PBT and vPvB Assessment

Does not contain any PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XVIII

## 12.6. Endocrine Disrupting Properties

Based on available data this substance/the substances in this mixture not listed below do(es) not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100 and/or the criteria set out in Regulation (EU) 2018/605, or the substance(s) are not required to be disclosed.

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### 12.7. Other Adverse Effects

Other Information : Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

Product/Packaging Disposal : Dispose of contents/container in accordance with local, regional, national, and international regulations.

Ecology - Waste Materials : Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

In accordance with ADR / RID / IMDG / IATA / ADN

<b>14.1. UN Number or ID Number</b>
Not regulated for transport
<b>14.2. UN Proper Shipping Name</b>
Not regulated for transport
<b>14.3. Transport Hazard Class</b>
Not regulated for transport
<b>14.4. Packing Group</b>
Not regulated for transport
<b>14.5. Environmental Hazards</b>
Not regulated for transport

### 14.6. Special Precautions For User

No additional information available

### 14.7. Maritime Transport in Bulk According to IMO instruments

Not applicable

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### 15.1.1. EU-Regulations

##### 15.1.1.1. REACH Annex XVII Information

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	D-Limonene ; .alpha.-Pinene ; L-Limonene
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Oils, mint, Mentha arvensis piperascens ; Oils, peppermint ; Benzene, 1-methoxy-4-(1-propenyl)-, (E)- ; D-Limonene ; .alpha.-Pinene ; L-Limonene
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Oils, mint, Mentha arvensis piperascens ; Oils, peppermint ; D-Limonene ; .alpha.-Pinene ; L-Limonene
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Sodium lauryl sulfate ; D-Limonene ; .alpha.-Pinene ; L-Limonene

##### 15.1.1.2. REACH Candidate List Information

Contains no substance on the REACH candidate list

##### 15.1.1.3. POP (2019/1021) - Persistent Organic Pollutants Information

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

##### 15.1.1.4. PIC Regulation EU (649/2012) - Export and Import of Hazardous Chemicals Information

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

##### 15.1.1.5. REACH Annex XIV Information

Contains no REACH Annex XIV substances

##### 15.1.1.6. Substances Depleting the Ozone layer (1005/2009) Information

No additional information available

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### 15.1.1.7. EC Inventory Information

<b>1,2,3-Propanetriol (56-81-5)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Sodium bicarbonate (144-55-8)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Sodium fluoride (7681-49-4)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Sodium carbonate (497-19-8)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Sulfuric acid, calcium salt (1:1) (7778-18-9)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Carbonic acid, calcium salt (1:1) (471-34-1)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Calcium hydroxide (1305-62-0)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Sodium lauryl sulfate (151-21-3)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Coconut oil (8001-31-8)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Benzene, 1-methoxy-4-(1-propenyl)-, (E)- (4180-23-8)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>D-Limonene (5989-27-5)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>alpha-Pinene (80-56-8)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>L-Limonene (5989-54-8)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Aluminium oxide (Al<sub>2</sub>O<sub>3</sub>) (1344-28-1)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### 15.1.1.8. Other Information

No additional information available

### 15.1.2. National Regulations

No additional information available

### 15.1.3. International Inventory Lists

<b>1,2,3-Propanetriol (56-81-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemicals Inventory)
<b>Sodium bicarbonate (144-55-8)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemicals Inventory)
<b>Sodium fluoride (7681-49-4)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List) Listed on the Canadian IDL (Ingredient Disclosure List) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

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Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Japanese Poisonous and Deleterious Substances Control Law  
Japanese Pollutant Release and Transfer Register Law (PRTR Law)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Silica, amorphous, precipitated and gel (112926-00-8)**

Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Sodium carbonate (497-19-8)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Sulfuric acid, calcium salt (1:1) (7778-18-9)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Carbonic acid, calcium salt (1:1) (471-34-1)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Calcium hydroxide (1305-62-0)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)

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Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### Sodium lauryl sulfate (151-21-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Japanese Pollutant Release and Transfer Register Law (PRTR Law)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### Coconut oil (8001-31-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### Oils, mint, *Mentha arvensis piperascens* (68917-18-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### Oils, peppermint (8006-90-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### Benzene, 1-methoxy-4-(1-propenyl)-, (E)- (4180-23-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### D-Limonene (5989-27-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)



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Listed on the Canadian IDL (Ingredient Disclosure List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **.alpha.-Pinene (80-56-8)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **L-Limonene (5989-54-8)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Polyethylene glycol (25322-68-3)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the EU NLP (No Longer Polymers) inventory  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Aluminium oxide (Al<sub>2</sub>O<sub>3</sub>) (1344-28-1)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
Subject to reporting requirements of United States SARA Section 313  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

## 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

## SECTION 16: OTHER INFORMATION

Date of Preparation or Latest Revision : 20/05/2024

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- Data Sources

: Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.
- Other Information

: According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Full Text of H- and EUH-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 2	Flammable solids, Category 2
H226	Flammable liquid and vapour.
H228	Flammable solid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

Classification and Procedure Used to Derive the Classification for Mixtures According to Regulation (EC) 1272/2008 [CLP]:

Eye Irrit. 2	Calculation method
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Indication of Changes

Section	Change	Date Changed	Version
1	Language modified	25/01/2023	2.0
2	Classification modified; Language modified	25/01/2023	2.0
3	Data modified	25/01/2023	2.0
4	Language modified	25/01/2023	2.0
8	Data modified; Language modified	25/01/2023	2.0
9	Data modified	25/01/2023	2.0
11	Data modified; Language modified	25/01/2023	2.0
12	Data modified; Language modified	25/01/2023	2.0
14	Language modified	25/01/2023	2.0
15	Data modified; Language modified	25/01/2023	2.0
16	Language modified	25/01/2023	2.0
1	Product name modified; Product code modified	20/05/2023	2.1

Abbreviations and Acronyms

- ACGIH – American Conference of Governmental Industrial Hygienists

ADN – European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

ATE - Acute Toxicity Estimate
- NDS - Najwyższe Dopuszczalne Steżenie

NDSch - Najwyższe Dopuszczalne Steżenie Chwilowe

NDSP - Najwyższe Dopuszczalne Steżenie Pulapowe

NOAEL - No-Observed Adverse Effect Level

NOEC - No-Observed Effect Concentration

NRD - Nevirsytinas Ribinis Dydis

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BCF - Bioconcentration Factor  
BEI - Biological Exposure Indices (BEI)  
BOD – Biochemical Oxygen Demand  
CAS No. - Chemical Abstracts Service Number  
CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008  
COD – Chemical Oxygen Demand  
EC – European Community  
EC50 - Median Effective Concentration  
EEC – European Economic Community  
EINECS – European Inventory of Existing Commercial Chemical Substances  
EmS-No. (Fire) - IMDG Emergency Schedule Fire  
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage  
EU – European Union  
ErC50 - EC50 in Terms of Reduction Growth Rate  
GHS – Globally Harmonized System of Classification and Labeling of Chemicals  
IARC - International Agency for Research on Cancer  
IATA - International Air Transport Association  
IBC Code - International Bulk Chemical Code  
IMDG - International Maritime Dangerous Goods  
IPRV - Ilgalaikio Poveikio Ribinis Dydis  
IOELV – Indicative Occupational Exposure Limit Value  
LC50 - Median Lethal Concentration  
LD50 - Median Lethal Dose  
LOAEL - Lowest Observed Adverse Effect Level  
LOEC - Lowest-Observed-Effect Concentration  
Log Koc - Soil Organic Carbon-water Partitioning Coefficient  
Log Kow - Octanol/water Partition Coefficient  
Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water  
MAK – Maximum Workplace Concentration/Maximum Permissible Concentration  
MARPOL - International Convention for the Prevention of Pollution

NTP – National Toxicology Program  
OEL - Occupational Exposure Limits  
PBT - Persistent, Bioaccumulative and Toxic  
PEL - Permissible Exposure Limit  
pH – Potential Hydrogen  
REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals  
RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail  
SADT - Self Accelerating Decomposition Temperature  
SDS - Safety Data Sheet  
STEL - Short Term Exposure Limit  
STOT - Specific Target Organ Toxicity  
TA-Luft - Technische Anleitung zur Reinhaltung der Luft  
TEL TRK – Technical Guidance Concentrations  
ThOD – Theoretical Oxygen Demand  
TLM - Median Tolerance Limit  
TLV - Threshold Limit Value  
TPRD - Trumpalaikio Poveikio Ribinis Dydis  
TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern  
TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine  
TRGS 900 - Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte  
TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte  
TSCA - Toxic Substances Control Act  
TWA - Time Weighted Average  
VOC – Volatile Organic Compounds  
VLA-ED - Valor Límite Ambiental Exposición de Corta Duración  
VLA-ED - Valor Límite Ambiental Exposición Diaria  
VLE – Valeur Limite D'exposition  
VME – Valeur Limite De Moyenne Exposition  
vPvB - Very Persistent and Very Bioaccumulative  
WEL – Workplace Exposure Limit  
WGK - Wassergefährdungsklasse

## Limit Value Legal Basis\*

\*Includes the below and any related regulations/provisions, and subsequent amendments

**EU - 2019/1831 EU in accor. with 98/24/EC** - Directive 2019/1831/EU of October 24, 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 2000/39/EC.

**EU - 2019/1243/EU, and 98/24/EC** - Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work and amendment Regulation (EU) 2019/1243.

**Austria - BGBl. II Nr. 254/2018** - Ordinance on Limit Values for Workplace Substances and on Carcinogens from the Federal Ministry of Economics and Labour, Published in 2003, Appendix 1: Substance List, Published through: Ministry of Economics and Labour of the Republic of Austria amended through the Government Gazette II (BGBl. II) No 119/2004) & BGBl. II No. 242/2006, BGBl. II No. 243/2007, lastly changed through BGBl. I Nr. 51/2011), BGBl. II Nr. 186/2015, BGBl. II Nr. 288/2017 amended by BGBl. II Nr. 254/2018.

**Austria - BLV BGBl. II Nr. 254/2018** - Ordinance on health monitoring at the workplace 2008, published through BGBl. II Nr. 224/2007 by Austria Minister for Labor and Social Affairs, Lastly changed through BGBl. II Nr. 254/2018

**Belgium - Royal Decree 21/01/2020** - Royal decree amending title 1 relating to chemical agents in Book VI of the code of well-being at work, with regard to the list of limit values of exposure to chemical agents and title 2 relating to carcinogens, mutagens and reprotoxics of Book VI of the code of well-being at work (1)

**Bulgaria - Reg. No. 13/10** -

Regulation No. 13 of December 30, 2003 on the Protection of Workers from Hazards Related to Exposure to Chemical Agents at Work Labor Code, Annex No.1 Limit values of chemical agents in the air of the working environment, and Annex № 2 Biological limit values of chemical agents and their metabolites (bio markers of exposure) or bio markers of effect Amended by: 71/2006, 67/2007, 2/2012, 46/2015, 73/2018, 5/2020), and Regulation No.10 of September 26, 2003 on the Protection of Workers from the Risks Associated with Exposure to Carcinogens and Mutagens at Work Annex No.1 Occupational Exposure Limits, Amended by: 8/2004, 46/2015, 5/2020

**Croatia - OG No. 91/2018** - Regulation on the Protection of Workers from Exposure to Hazardous Chemicals at Work, the Limit Values of Exposure and the Biological Limit Values. Official Gazette No. 91 of October 12, 2018

**Greece - PWHSE** - Occupational Exposure Limits - Protection of workers' health and safety from exposure to certain chemical substances during the workday, (latest amendment 82/2018) and Occupation Exposure Limits - Protection of workers' health and safety from exposure to certain carcinogenic and mutagenic chemical substances (latest amendment 26/2020), and Presidential Decree 212/2006 - Protection of workers that are exposed to asbestos.

**Hungary - Decree 05/2020** - 5/2020. (II. 6.) ITM decree on the protection of the health and safety of workers from the risks related to chemical agents

**Ireland - 2020 COP** - 2020 Code of Practice for the Chemical Agents Regulations, Schedule 1

**Italy - Decree 81** - Title IX, Annex XLIII and XXXVIII, Professional Exposure Limits and Annex XXXIX Mandatory Biological Limit Values and Health Monitoring, Article 1, Law 123 of August 3, 2007, Legislative Decree 81 of April 9, 2008, Last amended: January 2020

**Italy - IMDFN1** - Ministerial Decree of August 20, 1999 Final Note (1)

**Latvia - Reg. No. 325** - Cabinet of Ministers Regulation No. 325 - Labour Protection Requirements when Coming in Contact with Chemical Substances at Workplaces, Amended by Cabinet of Ministers Regulation No. 92, 163, 407 and No. 11.

**Lithuania - HN 23:2011** - Lithuanian Hygiene Standard HN 23:2011 Occupational Exposure Limit Values, Amended by Order V-695/A1-272.

**Luxembourg - A-N 684** - Grand-Ducal Regulation of 20 July 2018 amending the Grand-Ducal Regulation of 14 November 2016 concerning the protection of the safety and health of employees against the risks associated with chemical agents in the workplace. Official journal of the Grand-Duke of Luxembourg, A-N°684 of 2018

**Malta - MOSHAA Ch. 424** - Malta Occupational Health and Safety Authority Act: Chapter 424 as amended by: Legal Notice 353, 53, 198, and 57.

**Netherlands- OWCRLV** - Occupational Working Conditions Regulation, Limit Values for substances harmful to health, Annex XVIII, Updated from August 1, 2020.

**Norway - FOR-2020-04-060695** - Regulations concerning action and limit values for physical and chemical agents in the working environment and classified biological agents, FOR-2011-12-06-1358, Updated by: FOR-2020-04-06-695, FOR-2020-03-23-402, FOR-2018-12-20-2186, FOR-2018-08-21-1255,

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## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

**Cyprus - KDP 16/2019** - Government of Cyprus Cabinet of Ministers Regulation 268/2001 - Safety and Health in the Working Environment (Chemical Substances) Article 38, As amended by Regulation 16/2019 and Cabinet of Ministers Regulation 153/2001 - Safety and Health in the Working Environment (Chemical Substances-Carcinogens), as amended by Regulation 493/2004 - Safety and Health in the Working Environment (Chemical Substances - Carcinogens) AND Law 47(I) 2000 - Occupational Health and Safety (Asbestos), as amended by Decree 316/2006.

**Czech Republic - Reg. 41/2020** - Regulation 41/2020 amending Regulation 361/2007 of Coll. establishing Occupation Exposure Limits as amended

**Czech Republic - Decree No. 107/2013** - Decree No. 107/2013 Coll., amending Decree No. 432/2003 Coll., laying down the conditions for the application of the work into categories, limit values for the parameters of biological exposure tests, collection of biological material conditions for the implementation of biological exposure tests and requirements for reporting work with asbestos and biological agents

**Denmark - BEK No. 698 of 28/05/2020** - Order on Limit Values for Substances and Materials, The Statutory Order No. 507 of May 17, 2011, Appendix 1 - Limits for air pollution, etc. and Appendix 3 - Biological Exposure Values, Amended by: No. 986 of October 11, 2012, No. 655 of May 31, 2018, No. 1458 December 13, 2019, No. 698 of May 28, 2020

**Estonia - Regulation No. 105** - Health and Safety Requirements for the Use of Dangerous Chemicals and Materials Containing Them and Occupational Exposure Limits to Chemical Agents

Government of the Republic, Regulation No. 105 of 20 March 2001, Amended 17 October 2019, and 17 January, 2020.

**Finland - HTP-ARVOT 2020** - Concentrations Known to be Hazardous, 654/2020 OEL values 2020 Publications of Ministry of Social Affairs and Health 2020:24 Annexes1, 2 and 3.

**France - INRS ED 984** - Occupational Exposure Limit Values to Chemical Agents in France Published 2016 by the INRS National Institute of Research and Safety Health and safety of work, revised, updated by: Decree 2016-344, JORF No 0119, and Decree 2019-1487.

**France - Decree 2009-1570** - Decree 2009-1570 of December 15, 2009, relative to the control of chemical risk on workplaces.

**Germany - TRGS 900** - Occupational Exposure Limits, Technical Rules for Dangerous Substances, latest amendment March, 2020

**Germany - TRGS 903** - Biological Threshold Limits (BGW-Values), Technical Rules for Dangerous Substances, latest amendment March, 2020

**Gibraltar - LN. 2018/131** - Factories (Control of Chemical Agents at Work) Regulations 2003 LN. 2003/035, amended by LN. 2008/035, LN. 2008/050, LN. 2012/021, LN. 2015/143, LN. 2018/181.

FOR-2017-12-20-2353.

**Poland - Dz. U. 2020 Nr. 61** - Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the Highest Allowable Concentrations and Intensities of Factors Harmful to Health in the Work Environment Dz.U. 2018 Nr. 1286 of June 12, 2018, Annex 1 - List of values of the highest permissible chemical concentrations and dust factors harmful to health in the work environment, amended by: Dz. U. 2020 Nr. 61.

**Portugal - Portuguese Norm NP 1796:2014** - Occupational exposure limits and biological exposure indices to chemical agents. Table 1 - Occupational exposure limits and biological exposure indices to chemical agents (OELs), Law Decree 35/2020.

**Romania - Gov. Dec. No 1.218** - Governmental Decision No. 1.218 from 06/09/2006 on the minimum health and safety requirements for protection of workers from the risks related to exposure to chemical agents, Annex No. 1 Mandatory National Occupational Exposure Limit Values for Chemical Agents. Amended by Decision no. 157, 584, 359, and 1.

**Slovakia - Gov. Decree 33/2018** - Government Decree of Slovak Republic 33/2018 on January 17, 2018 amending Government Decree of Slovak Republic 355/2006 about protection of health of employees when working with chemical agents

**Slovenia - No. 79/19** - Regulation for protection of workers against risks related to carcinogenic or mutagenic substances exposure. Annex III - Classification and binding levels of carcinogenic or mutagenic substances for occupational exposure. The Official Journal of the Republic of Slovenia, No. 101/2005. Amended by 38/15, 79/19. Regulation for protection of workers against risks related to exposure to chemical substances at the workplace. Republic of Slovenia, No. 100/2001 . Annex I - List of Binding Occupational Exposure Limit Values. Amended by 39/05, 53/07, 102/10, 38/15, 78/18, 78/19

**Spain - AFS 2018:1** - NATIONAL INSTITUTE FOR HEALTH AND SAFETY AT WORK. Occupational exposure limits for chemical agents in Spain. Tables 1 and 3. Latest edition Feb. 2019

**Sweden - AFS 2018:1** - Statute Book of the Swedish Work Environment Authority, AFS 2018:1

The Swedish Work Environment Authority's Ordinance and General Guidance on Hygienic Limit Values

**Switzerland - OLVSNAlF** - Occupational Limit Values 2020 Swiss National Accident Insurance Fund. List of Biological Limit Values (BAT-Werte) and List of MAK Values.