

Safety Data Sheet

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

Date of Issue: 22/08/2022

Version: 1.0

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

1.1. Product Identifier

Product Form : Mixture

Product Name : Batiste™ Waterless Conditioning Foam Tropical (EU GHS (2020/878))

Product Code : GB053-152

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 : Leave on Hair Product

1.2.2. Uses Advised Against

Uses Advised Against : None

1.3. Details of the Supplier of the Safety Data Sheet

Company Company

Sofibel Church & Dwight UK 110-114 RUE VICTOR HUGO Wear Bay Road, CT19 6PG

92300 LEVALLOIS PERRET Folkestone, Kent – United Kingdom

FRANCE + 44 0800 121 6080 (Mon - Friday 9am - 4:30pm)

Téléphone :01.49.68.41.00 www.churchdwight.com

www.churchdwight.com consumer.relationsUK@churchdwight.com

1.4. Emergency Telephone Number

Emergency Number : For Medical Emergency: 1-888-234-1828 (USA and Canada), 952-853-1925 (Outside USA and

Canada)

For Chemical Emergency: ChemTel LLC (800)255-3924 (North America) +1 (813)248-0585

(International)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

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

Aerosol 1 H222;H229 Eye Dam. 1 H318

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

2.2. Label Elements

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

Hazard Pictograms (CLP) :





Signal Word (CLP) : Danger

Hazard Statements (CLP) : H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

H318 - Causes serious eye damage.

Precautionary Statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

P280 - Wear protective gloves, protective clothing, eye protection, and face

protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50

°C/122 °F.

22/08/2022 EN (English) 1/19

Safety Data Sheet

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

2.3. Other Hazards

Other Hazards Not Contributing to the Classification

: Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Gas can be toxic as a simple asphyxiant by displacing oxygen from the air. Contact with gas escaping the container can cause frostbite.

This substance/mixture does not meet the PBT/vPvB criteria of REACH regulation, annex XIII

The mixture contains substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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

Component	
Ethyl alcohol(64-17-5)	The substance is included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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

^{*}Ethanol (ethyl alcohol) possesses endocrine disrupting properties in both humans and animals related to cancer and foetal harm when consumed as alcoholic beverages in large enough quantities. This product is not formulated nor is it intended for oral consumption; therefore, the overall product is not considered an endocrine disruptor. For this reason, Ethanol is notated as an Endocrine Disruptor solely in the interest of Good Product Stewardship.

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
n-Butane	(CAS-No.) 106-97-8 (EC-No.) 203-448-7 (EC Index-No.) 601-004-00-0	6-12	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Ethyl alcohol substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SI, SK, NO, CH); substance identified as having endocrine disrupting properties	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5	3-8	Flam. Liq. 2, H225
Isobutane	(CAS-No.) 75-28-5 (EC-No.) 200-857-2 (EC Index-No.) 601-004-00-0	2-5	Flam. Gas 1A, H220 Press. Gas
Siloxanes and silicones, dimethyl, 3-hydroxypropyl methyl, ethoxylated	(CAS-No.) 68937-54-2 (EC-No.) 614-822-8	2-5	Eye Irrit. 2, H319
Propane	(CAS-No.) 74-98-6 (EC-No.) 200-827-9 (EC Index-No.) 601-003-00-5	2-5	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
1,2,3-Propanetriol substance with national workplace exposure limit(s) (BE, CZ, DE, EE, ES, FI, FR, GB, GR, HR, PL, PT, SI, SK, CH)	(CAS-No.) 56-81-5 (EC-No.) 200-289-5	1-3	Not classified
Mirataine CB	(CAS-No.) 86438-79-1 (EC-No.) 617-861-9	1-3	Eye Dam. 1, H318
2-Phenoxyethanol substance with national workplace exposure limit(s) (AT, DE, FI, PL, SI, CH)	(CAS-No.) 122-99-6 (EC-No.) 204-589-7 (EC Index-No.) 603-098-00-9	0,1-1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 STOT SE 3, H335
Benzyl acetate substance with national workplace exposure limit(s) (BE, DK, ES, IE, LT, LV, PT, RO)	(CAS-No.) 140-11-4 (EC-No.) 205-399-7	0,04 – 0,08	Aquatic Chronic 3, H412
D-Limonene substance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH)	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00- 7;601-096-00-2	0,01 – 0,02	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
.betaPinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO)	(CAS-No.) 127-91-3 (EC-No.) 204-872-5;242-060-2	0,0004 – 0,001	Flam. Liq. 3, H226 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

22/08/2022 EN (English) 2/19

Safety Data Sheet

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

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 : First, take proper precautions to ensure your own safety before attempting rescue

(e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable

for breathing.

First-Aid Measures After Skin Contact : For brief contact with a small amount: Rewarm with body heat. Get immediate

medical advice/attention. For extensive contact or a large amount: Immediately call a poison center/doctor and follow their advice. Specific treatment is urgent, incorrect first-aid practices will aggravate the injury. Protect affected area with a

loose cover until proper medical treatment is received.

First-Aid Measures After Eye Contact : Immediately rinse with water for at least 30 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get immediate medical advice/attention.

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 damage. May cause frostbite on contact with the liquid.

Asphixia by lack of oxygen: risk of death.

Symptoms/Effects After Inhalation: Prolonged exposure may cause irritation. In elevated concentrations may cause

asphyxiation, central nervous system effects, and increased breathing rate. Symptoms of asphyxiation include headache, dizziness, rapid breathing, increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness

of the extremities, unconsciousness, and death.

Symptoms/Effects After Skin Contact : Prolonged exposure may cause skin irritation. Contact with gas/liquid escaping the

container can cause frostbite and freeze burns.

Symptoms/Effects After Eye Contact : Causes permanent damage to the cornea, iris, or conjunctiva. Contact with

gas/liquid escaping the container can cause frostbite and freeze burns.

Symptoms/Effects After Ingestion : Not considered a potential route of exposure, but contact with gas/liquid escaping

the container can cause freeze burns and frostbite.

Chronic Symptoms : None expected under normal conditions of use.

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 (CO₂), alcohol-resistant foam, dry chemical, or

sand.

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 : Flammable aerosol.

Explosion Hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing

risk of burns and injuries.

Reactivity : Reacts violently with strong oxidisers. Increased risk of fire or explosion.

Hazardous Combustion Products : Carbon oxides (CO, CO₂). Oxides of silicone. Acrolein.

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. DO NOT fight fire when fire

reaches containers. Evacuate area.

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 : Keep away from heat, hot surfaces, sparks, open flames, and other ignition

sources. No smoking. Do not breathe gas. Do not get in eyes, on skin, or on

clothing.

6.1.1. For Non-Emergency Personnel

Protective Equipment : Use appropriate personal protective equipment (PPE).

22/08/2022 EN (English) 3/19

Safety Data Sheet

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

Emergency Procedures

: Evacuate unnecessary personnel. Stop leak if safe to do so.

6.1.2. For Emergency Responders

Protective Equipment : Equip cleanup crew with proper protection.

Emergency Procedures : Eliminate ignition sources first, then ventilate the area. 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.

6.2. **Environmental Precautions**

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment : Stop leak, if possible without risk.

Methods for Cleaning Up : Clean up spills and dispose of waste safely. Transfer spilled material to a suitable

container for disposal. Isolate area until gas has dispersed. 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**

Additional Hazards When Processed Precautions for Safe Handling

: Pressurised container: May burst if heated. Do not pierce or burn, even after use.

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing gas. Do not spray on

an open flame or other ignition source. Do not get in eyes, on skin, or on clothing.

Hygiene Measures : Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures : Comply with applicable regulations. Proper grounding procedures to avoid static

electricity should be followed.

Storage Conditions : Store in accordance with applicable national storage class systems. Store in a dry,

cool place. Keep/Store away from direct sunlight, extremely high or low

temperatures and incompatible materials. Keep only in the original container in a cool, well ventilated place away from ignition sources. Protect from sunlight. Do

not expose to temperatures exceeding 50°C/122°F.

: Strong acids, strong bases, strong oxidisers.

Incompatible Materials Specific End Use(S) 7.3.

Leave on Hair Product

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.

n-Butane (106-97-8)		
, ,	OFI TIMA (Laral Basis DCBL HAIr 254/2010)	1000 mg/m3/Dutomg/alliagmams))
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	1900 mg/m³ (Butane (all isomers))
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	800 ppm (Butane (all isomers))
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	3800 mg/m³
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	1600 ppm
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	2370 mg/m³
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	980 ppm
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	1900 mg/m³
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	1450 mg/m³
		22 mg/m³ (containing >=0.1% Butadiene)
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	600 ppm
		10 ppm (containing >=0.1% Butadiene)
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	1810 mg/m³
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	750 ppm
Croatia	OEL Chemical Category (Legal Basis:OG No. 91/2018)	Carcinogen Category 1A containing >=0.1% Butadiene, Mutagen
		Category 1B containing >=0.1% Butadiene
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	1200 mg/m³
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	500 ppm
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	1500 mg/m³

22/08/2022 EN (English) 4/19

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

According to Regulation	(EC) No. 1907/2006 (REACH) With its amendment Regulation (EU) 2	.020/878
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	800 ppm
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	1900 mg/m³ (suffocating gas that displaces oxygen (Butane)
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	800 ppm (suffocating gas that displaces oxygen (Butane)
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	2400 mg/m³
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	1000 ppm
France	OEL TWA (Legal Basis:INRS ED 984)	1900 mg/m³
France	OEL TWA (Legal Basis:INRS ED 984)	800 ppm
Germany	OEL TWA (Legal Basis:TRGS 900)	2400 mg/m³
Germany	OEL TWA (Legal Basis:TRGS 900)	1000 ppm
Greece	OEL TWA (Legal Basis:PWHSE)	2350 mg/m³
Greece	OEL TWA (Legal Basis:PWHSE)	1000 ppm
Hungary	OEL TWA (Legal Basis:Decree No. 05/2020)	2350 mg/m³
Hungary	OEL STEL (Legal Basis:Decree No. 05/2020)	9400 mg/m³
Ireland	OEL TWA (Legal Basis:2020 COP)	1000 ppm (Aliphatic hydrocarbon gases - Alkanes (C1-C4))
Ireland	OEL STEL (Legal Basis:2020 COP)	3000 ppm (calculated)
USA ACGIH	OEL STEL (Legal Basis:IMDFN1)	1000 ppm (explosion hazard (Butane, isomers)
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	300 mg/m³
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	600 mg/m³
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	250 ppm
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	750 mg/m³ (value calculated)
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	312,5 ppm (value calculated)
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	1900 mg/m³
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	3000 mg/m ³
Slovenia	OEL TWA (Legal Basis:No. 79/19)	2400 mg/m³ (containing >=0.1% Butadiene)
Slovenia	OEL TWA (Legal Basis:No. 79/19)	1000 ppm (containing >=0.1% Butadiene)
Slovenia	OEL STEL (Legal Basis:No. 79/19)	9600 mg/m³ (containing >=0.1% Butadiene)
Slovenia	OEL STEL (Legal Basis:No. 79/19)	4000 ppm (containing >=0.1% Butadiene)
Slovenia	OEL Chemical Category (Legal Basis:No. 79/19)	Category 1B containing >=0.1% Butadiene, Category 1A containing
		>=0.1% Butadiene
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	7600 mg/m³ (Butane)
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	3200 ppm (Butane)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	1900 mg/m³ (Butane (all isomers))
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	800 ppm (Butane (all isomers))
Isobutane (75-28-5)		
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	1900 mg/m³ (Butane (all isomers))
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	800 ppm (Butane (all isomers))
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	3800 mg/m³ (Butane both isomers)
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	1600 ppm (Butane both isomers)
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	1900 mg/m³
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	800 ppm
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	1900 mg/m³ (suffocating gas that displaces oxygen (Butane)
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	800 ppm (suffocating gas that displaces oxygen (Butane)
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	2400 mg/m³ (Butane)
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	1000 ppm (Butane)
Germany	OEL TWA (Legal Basis:TRGS 900)	2400 mg/m³
Germany	OEL TWA (Legal Basis:TRGS 900)	1000 ppm
USA ACGIH	OEL STEL (Legal Basis:IMDFN1)	1000 ppm (explosion hazard (Butane, isomers)
Slovenia	OEL TWA (Legal Basis:No. 79/19)	2400 mg/m³
Slovenia	OEL TWA (Legal Basis:No. 79/19)	1000 ppm
Slovenia	OEL STEL (Legal Basis:No. 79/19)	9600 mg/m³
1 a	OEL STEL (Legal Basis:No. 79/19)	4000 ppm
Slovenia	, ,	
Slovenia Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	7600 mg/m³ (Butane)
		7600 mg/m³ (Butane) 3200 ppm (Butane)
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	
Switzerland Switzerland	OEL STEL (Legal Basis:OLVSNAIF) OEL STEL (Legal Basis:OLVSNAIF)	3200 ppm (Butane)
Switzerland Switzerland Switzerland	OEL STEL (Legal Basis:OLVSNAIF) OEL STEL (Legal Basis:OLVSNAIF) OEL TWA (Legal Basis:OLVSNAIF)	3200 ppm (Butane) 1900 mg/m³ (including Butane (all isomers)
Switzerland Switzerland Switzerland Switzerland	OEL STEL (Legal Basis:OLVSNAIF) OEL STEL (Legal Basis:OLVSNAIF) OEL TWA (Legal Basis:OLVSNAIF)	3200 ppm (Butane) 1900 mg/m³ (including Butane (all isomers)
Switzerland Switzerland Switzerland Switzerland Propane (74-98-6)	OEL STEL (Legal Basis:OLVSNAIF) OEL STEL (Legal Basis:OLVSNAIF) OEL TWA (Legal Basis:OLVSNAIF) OEL TWA (Legal Basis:OLVSNAIF)	3200 ppm (Butane) 1900 mg/m³ (including Butane (all isomers) 800 ppm (including Butane (all isomers)

22/08/2022 EN (English) 5/19

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

Austria OEL STEL (Legal Basis:BGBI. II Nr. 254/2018) 3600 mg/m³ Austria OEL STEL (Legal Basis:BGBI. II Nr. 254/2018) 2000 ppm Belgium OEL TWA (Legal Basis:Royal Decree 21/01/2020) 1000 ppm (gas) Bulgaria OEL TWA (Legal Basis:Reg. No. 13/10) 1800 mg/m³ Denmark OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020) 1800 mg/m³ Denmark OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020) 1000 ppm	
Belgium OEL TWA (Legal Basis:Royal Decree 21/01/2020) 1000 ppm (gas) Bulgaria OEL TWA (Legal Basis:Reg. No. 13/10) 1800 mg/m³ Denmark OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020) 1800 mg/m³	
Bulgaria OEL TWA (Legal Basis:Reg. No. 13/10) 1800 mg/m³ Denmark OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020) 1800 mg/m³	
Denmark OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020) 1800 mg/m³	
Denmark OFI TWA (Logal Pacis: PEK No. 609 of 39/05/2020) 1000 ppm	
Definition OEL TWA (Legal Basis.BEK NO. 098 01 28/05/2020) 1000 ppini	
EstoniaOEL TWA (Legal Basis:Regulation No. 105)1800 mg/m³	
EstoniaOEL TWA (Legal Basis:Regulation No. 105)1000 ppm	
Finland OEL TWA (Legal Basis:HTP-ARVOT 2020) 1500 mg/m³ (suffocating gas that displaces oxygen)	
Finland OEL TWA (Legal Basis:HTP-ARVOT 2020) 800 ppm (suffocating gas that displaces oxygen)	
Finland OEL STEL (Legal Basis:HTP-ARVOT 2020) 2000 mg/m³	
Finland OEL STEL (Legal Basis:HTP-ARVOT 2020) 1100 ppm	
Germany OEL TWA (Legal Basis:TRGS 900) 1800 mg/m³	
Germany OEL TWA (Legal Basis:TRGS 900) 1000 ppm	
Greece OEL TWA (Legal Basis:PWHSE) 1800 mg/m³	
Greece OEL TWA (Legal Basis:PWHSE) 1000 ppm	
Ireland OEL STEL (Legal Basis:2020 COP) 3000 ppm (calculated (Aliphatic hydrocarbon gases - Al	kanes (C1-C4))
Ireland OEL Chemical Category (Legal Basis:Decree No. 05/2020) Simple asphyxiant	<u> </u>
Latvia OEL TWA (Legal Basis:Reg. No. 325) 1800 mg/m³	
Latvia OEL TWA (Legal Basis:Reg. No. 325) 1000 ppm	
Norway OEL TWA (Legal Basis:FOR-2020-04-06-695) 900 mg/m³	-
Norway OEL TWA (Legal Basis:FOR-2020-04-06-695) 500 ppm	
Norway OEL STEL (Legal Basis:FOR-2020-04-06-695) 1125 mg/m³ (value calculated)	
Norway OEL STEL (Legal Basis:FOR-2020-04-06-695) 625 ppm (value calculated)	
Poland OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61) 1800 mg/m³	
Portugal OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014) 1000 ppm	
Romania OEL TWA (Legal Basis:Gov. Dec. No 1.218) 1400 mg/m³	
Romania OEL TWA (Legal Basis:Gov. Dec. No 1.218) 778 ppm	
Romania OEL STEL (Legal Basis:Gov. Dec. No 1.218) 1800 mg/m³	
Romania OEL STEL (Legal Basis:Gov. Dec. No 1.218) 1000 ppm	
Slovenia OEL TWA (Legal Basis:No. 79/19) 1800 mg/m³	
Slovenia OEL TWA (Legal Basis:No. 79/19) 1000 ppm	
Slovenia OEL STEL (Legal Basis:No. 79/19) 7200 mg/m³	
Slovenia OEL STEL (Legal Basis:No. 79/19) 4000 ppm	
Switzerland OEL STEL (Legal Basis:OLVSNAIF) 7200 mg/m³	
Switzerland OEL STEL (Legal Basis:OLVSNAIF) 4000 ppm	
Switzerland OEL TWA (Legal Basis:OLVSNAIF) 1800 mg/m³	
Switzerland OEL TWA (Legal Basis:OLVSNAIF) 1000 ppm	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Ethyl alcohol (64-17-5)	
Austria OEL TWA (Legal Basis:BGBI. II Nr. 254/2018) 1900 mg/m³	
Austria OEL TWA (Legal Basis:BGBI. II Nr. 254/2018) 1000 ppm	
Austria OEL STEL (Legal Basis:BGBl. II Nr. 254/2018) 3800 mg/m³	
Austria OEL STEL (Legal Basis:BGBI. II Nr. 254/2018) 2000 ppm Polgium OEL TWA (Legal Basis:Boyal Dorgon 21/01/2020) 1007 mg/m³	
Belgium OEL TWA (Legal Basis:Royal Decree 21/01/2020) 1907 mg/m³ Polgium OEL TWA (Legal Basis:Royal Decree 21/01/2020) 1000 ppm	
Belgium OEL TWA (Legal Basis:Royal Decree 21/01/2020) 1000 ppm	
Bulgaria OEL TWA (Legal Basis: Reg. No. 13/10) 1000 mg/m³ Coastie OFL TWA (Legal Basis: Reg. No. 91/2010) 1000 mg/m³	
Croatia OEL TWA (Legal Basis:OG No. 91/2018) 1900 mg/m³ Croatia OFL TWA (Legal Basis:OG No. 91/2018) 1000 mg/m³	
Croatia OEL TWA (Legal Basis:OG No. 91/2018) 1000 ppm	
Czech Republic OEL TWA (Legal Basis:Reg. 41/2020) 1000 mg/m³	
Denmark OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020) 1900 mg/m³	
Denmark OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020) 1000 ppm	
Estonia OEL TWA (Legal Basis:Regulation No. 105) 1000 mg/m³	
Estonia OEL TWA (Legal Basis:Regulation No. 105) 500 ppm	
Estonia OEL STEL (Legal Basis:Regulation No. 105) 1900 mg/m³	
Estonia OEL STEL (Legal Basis:Regulation No. 105) 1000 ppm	
Finland OEL TWA (Legal Basis:HTP-ARVOT 2020) 1900 mg/m³	
FinlandOEL TWA (Legal Basis:HTP-ARVOT 2020)1000 ppm	
Finland OEL STEL (Legal Basis:HTP-ARVOT 2020) 2500 mg/m ³	

22/08/2022 EN (English) 6/19

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

Finland	cluded
France OEL STEL (Legal Basis: INRS ED 984) 5000 ppm France OEL TWA (Legal Basis: INRS ED 984) 1900 mg/m³ France OEL TWA (Legal Basis: INRS ED 984) 1000 ppm Germany OEL TWA (Legal Basis: TRGS 900) 380 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) Germany OEL TWA (Legal Basis: PWHSE) 1900 mg/m³ Greece OEL TWA (Legal Basis: PWHSE) 1900 mg/m³ Greece OEL TWA (Legal Basis: PWHSE) 1900 mg/m³ Hungary OEL TWA (Legal Basis: PWHSE) 1900 mg/m³ Hungary OEL TWA (Legal Basis: PWHSE) 1900 mg/m³ Hungary OEL TWA (Legal Basis: MDFN1) 1000 ppm Lungary OEL STEL (Legal Basis: MDFN1) 1000 ppm USA ACGIH OEL STEL (Legal Basis: MDFN1) 1000 ppm Latvia OEL TWA (Legal Basis: MDFN1) 1000 ppm Lithuania OEL TWA (Legal Basis: MP 32:2011) 1000 mg/m³ Lithuania OEL TWA (Legal Basis: MP 32:2011) 1900 mg/m³ Lithuania OEL STEL (Legal Basis: MP 32:2011) 1900 mg/m³ Netherla	cluded
France	cluded
France	cluded
Germany	cluded
excluded when AGW and BGW values are observed	cluded
Greece OEL TWA (Legal Basis:PWHSE) 1900 mg/m³	cluded
Greece OEL TWA (Legal Basis:PWHSE) 1000 ppm 1900 mg/m³ 1900	
Hungary	
Hungary	
Ireland	
USA ACGIH OEL STEL (Legal Basis: IMDFN1) 1000 ppm	
Latvia OEL TWA (Legal Basis:Reg. No. 325) 1000 mg/m³ Lithuania OEL TWA (Legal Basis:HN 23:2011) 1000 mg/m³ Lithuania OEL TWA (Legal Basis:HN 23:2011) 500 ppm Lithuania OEL STEL (Legal Basis:HN 23:2011) 1900 mg/m³ Lithuania OEL STEL (Legal Basis:HN 23:2011) 1900 mg/m³ Lithuania OEL STEL (Legal Basis:AN 684) 1000 ppm Netherlands OEL TWA (Legal Basis:OWCRLV) 260 mg/m³ Netherlands OEL TWA (Legal Basis:OWCRLV) 1900 mg/m³ Netherlands OEL Chemical Category (Legal Basis:OWCRLV) 1900 mg/m³ Netherlands OEL Chemical Category (Legal Basis:FOR-2020-04-06-695) 950 mg/m³ Norway OEL TWA (Legal Basis:FOR-2020-04-06-695) 950 mg/m³ Norway OEL TWA (Legal Basis:FOR-2020-04-06-695) 1187,5 mg/m³ (value calculated) Norway OEL STEL (Legal Basis:FOR-2020-04-06-695) 1187,5 mg/m³ (value calculated) Norway OEL STEL (Legal Basis:FOR-2020-04-06-695) 625 ppm (value calculated) Poland OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014) 1900 mg/m³ Portugal OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014) 1000 ppm Portugal OEL TWA (Legal Basis:Gov. Dec. No 1.218) 1900 mg/m³ Romania OEL TWA (Legal Basis:Gov. Dec. No 1.218) 1900 mg/m³ Romania OEL TWA (Legal Basis:Gov. Dec. No 1.218) 1900 mg/m³ Romania OEL STEL (Legal Basis:Gov. Dec. No 1.218) 5000 ppm Slovakia OEL TWA (Legal Basis:Gov. Decree 33/2018) 960 mg/m³ Slovakia OEL TWA (Legal Basis:Gov. Decree 33/2018) 960 mg/m³ Slovakia OEL TWA (Legal Basis:Gov. Decree 33/2018) 960 mg/m³ Slovakia OEL TWA (Legal Basis:Gov. Decree 33/2018) 500 ppm Slovakia OEL TWA (Legal Basis:Gov. Decree 33/2018) 960 mg/m³ Slovakia OEL TWA (Legal Basis:Gov. Decree 33/2018) 1920 mg/m³ Slovenia OEL TWA (Legal Basis:No. 79/19) 500 ppm	
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Slovakia OEL STEL (Legal Basis:Gov. Decree 33/2018) 1920 mg/m³ Slovenia OEL TWA (Legal Basis:No. 79/19) 960 mg/m³ Slovenia OEL TWA (Legal Basis:No. 79/19) 500 ppm	
Slovenia OEL TWA (Legal Basis:No. 79/19) 500 ppm	
Slovenia OEL STEL (Legal Basis:No. 79/19) 1920 mg/m³	
\	
Slovenia OEL STEL (Legal Basis:No. 79/19) 1000 ppm	
Spain OEL STEL (Legal Basis:OELCAIS) 1910 mg/m³	
Spain OEL STEL (Legal Basis:OELCAIS) 1000 ppm	
Sweden OEL TLV (Legal Basis:AFS 2018:1) 1000 mg/m³	
Sweden OEL TLV (Legal Basis:AFS 2018:1) 500 ppm	
Sweden OEL STEL (Legal Basis:AFS 2018:1) 1900 mg/m³	
Sweden OEL STEL (Legal Basis:AFS 2018:1) 1000 ppm	
Switzerland OEL STEL (Legal Basis:OLVSNAIF) 1920 mg/m³	
Switzerland OEL STEL (Legal Basis:OLVSNAIF) 1000 ppm	
Switzerland OEL TWA (Legal Basis:OLVSNAIF) 960 mg/m³	
Switzerland OEL TWA (Legal Basis:OLVSNAIF) 500 ppm	
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	

22/08/2022 EN (English) 7/19

Safety Data Sheet

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

	EC) No. 1907/2006 (REACH) with its amendment Regulation (EU)	
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:PWHSE)	10 mg/m ³
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)
2-Phenoxyethanol (122	<u> </u>	000, (
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	110 mg/m³
Austria	OEL TWA (Legal Basis:BGBI. II Nr. 254/2018)	20 ppm
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	110 mg/m³
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	20 ppm
Austria	OEL Ceiling (Legal Basis:BGBI. II Nr. 254/2018)	110 mg/m³
Austria	OEL Ceiling (Legal Basis:BGBI. II Nr. 254/2018)	20 ppm
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	110 mg/m ³
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	20 ppm
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	290 mg/m³
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	50 ppm
Finland	OEL Chemical Category HTP-ARVOT 2020)	Potential for cutaneous absorption
Germany	OEL TWA (Legal Basis:TRGS 900)	5,7 mg/m³ (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)	1 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	230 mg/m³
Slovenia	OEL TWA (Legal Basis:No. 79/19)	5,7 mg/m³
Slovenia	OEL TWA (Legal Basis:No. 79/19)	1 ppm
Slovenia	OEL STEL (Legal Basis:No. 79/19)	5,7 mg/m³
Slovenia	OEL STEL (Legal Basis:No. 79/19)	1 ppm
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	110 mg/m³ (aerosol, vapour)
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	20 ppm (aerosol, vapour)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	110 mg/m³ (aerosol, vapour)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	20 ppm (aerosol, vapour)
Benzyl acetate (140-11	-4)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	62 mg/m³
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	10 ppm
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	61 mg/m³
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	10 ppm
Ireland	OEL TWA (Legal Basis:2020 COP)	10 ppm
Ireland	OEL STEL (Legal Basis:2020 COP)	30 ppm (calculated)
USA ACGIH	OEL TWA (Legal Basis:IMDFN1)	10 ppm
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	5 mg/m³
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	5 mg/m³
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	10 ppm
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)	50 mg/m ³
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	8 ppm
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	80 mg/m ³
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	13 ppm
Spain	OEL TWA (Legal Basis:OELCAIS)	62 mg/m³
Spain	OEL TWA (Legal Basis:OELCAIS)	10 ppm
D-Limonene (5989-27-5	· - · · ·	1 11
D-Ennotherie (3303-27-3	1	

22/08/2022 EN (English) 8/19

Safety Data Sheet

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

	EC) No. 1907/2006 (REACH) with its amendment Regulation (EU)	
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	140 mg/m³
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	25 ppm
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	280 mg/m³
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	50 ppm
Germany	OEL TWA (Legal Basis:TRGS 900)	28 mg/m³ (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
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	140 mg/m³
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	25 ppm
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	175 mg/m³ (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/m³
Slovenia	OEL TWA (Legal Basis:No. 79/19)	5 ppm
Slovenia	OEL STEL (Legal Basis:No. 79/19)	112 mg/m³
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/m³
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 ³
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	14 ppm
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	40 mg/m³
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	7 ppm
	,	
Switzerland	OEL Chemical Category (Legal Basis:OLVSNAIF)	Sensitizer
	OEL Chemical Category (Legal Basis:OLVSNAIF)	Sensitizer
.betaPinene (127-91-	3)	
.betaPinene (127-91- Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	20 ppm
.betaPinene (127-91- Belgium Estonia	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105)	20 ppm 150 mg/m³
.betaPinene (127-91- Belgium Estonia	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105)	20 ppm 150 mg/m³ 25 ppm
.betaPinene (127-91- Belgium Estonia Estonia	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³
.betaPinene (127-91- Belgium Estonia Estonia Estonia	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm
.betaPinene (127-91- Belgium Estonia Estonia Estonia Estonia USA ACGIH	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:IMDFN1)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes)
.betaPinene (127-91- Belgium Estonia Estonia Estonia Estonia USA ACGIH Lithuania	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:IMDFN1) OEL TWA (Legal Basis:HN 23:2011)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³
.betaPinene (127-91- Belgium Estonia Estonia Estonia USA ACGIH Lithuania	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:IMDFN1) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³ 25 ppm
.betaPinene (127-91- Belgium Estonia Estonia Estonia USA ACGIH Lithuania Lithuania	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³ 25 ppm 300 mg/m³
.betaPinene (127-91- Belgium Estonia Estonia Estonia USA ACGIH Lithuania Lithuania Lithuania	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:IMDFN1) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:A-N 684)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm
.betaPinene (127-91- Belgium Estonia Estonia Estonia USA ACGIH Lithuania Lithuania Lithuania Lithuania	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:IMDFN1) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:FOR-2020-04-06-695)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 140 mg/m³
.betaPinene (127-91- Belgium Estonia Estonia Estonia USA ACGIH Lithuania Lithuania Lithuania Lithuania Norway Norway	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:HMDFN1) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 140 mg/m³ 25 ppm
.betaPinene (127-91- Belgium Estonia Estonia Estonia USA ACGIH Lithuania Lithuania Lithuania Lithuania Norway Norway	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:IMDFN1) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:FNR 2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 140 mg/m³ 25 ppm 140 mg/m³ 25 ppm 175 mg/m³ (value calculated)
.betaPinene (127-91- Belgium Estonia Estonia Estonia USA ACGIH Lithuania Lithuania Lithuania Lithuania Norway Norway Norway Norway	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:IMDFN1) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:FOR-2020-04-06-695)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 140 mg/m³ 25 ppm 175 mg/m³ (value calculated) 37,5 ppm (value calculated)
.betaPinene (127-91- Belgium Estonia Estonia Estonia USA ACGIH Lithuania Lithuania Lithuania Lithuania Norway Norway	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:IMDFN1) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:AN 684) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:POR-2020-04-06-695) OEL STEL (Legal Basis:POR-2020-04-06-695) OEL STEL (Legal Basis:POR-2020-04-06-695) OEL Chemical Category (Legal Basis:Portuguese Norm NP	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 140 mg/m³ 25 ppm 140 mg/m³ 25 ppm 175 mg/m³ (value calculated)
.betaPinene (127-91- Belgium Estonia Estonia Estonia USA ACGIH Lithuania Lithuania Lithuania Lithuania Norway Norway Norway Norway Portugal Portugal	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:IMDFN1) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 140 mg/m³ 25 ppm 175 mg/m³ (value calculated) 37,5 ppm (value calculated) 20 ppm (Turpentine and selected Monoterpenes) Sensitizer,A4 - Not Classifiable as a Human Carcinogen
.betaPinene (127-91- Belgium Estonia Estonia Estonia Estonia USA ACGIH Lithuania Lithuania Lithuania Lithuania Norway Norway Norway Norway Portugal Spain	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:HMDFN1) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014) OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014) OEL TWA (Legal Basis:OELCAIS)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 140 mg/m³ 25 ppm 175 mg/m³ (value calculated) 37,5 ppm (value calculated) 20 ppm (Turpentine and selected Monoterpenes) Sensitizer,A4 - Not Classifiable as a Human Carcinogen
.betaPinene (127-91- Belgium Estonia Estonia Estonia Estonia USA ACGIH Lithuania Lithuania Lithuania Lithuania Norway Norway Norway Norway Portugal Portugal Spain	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:HM 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014) OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014) OEL TWA (Legal Basis:OELCAIS) OEL TWA (Legal Basis:OELCAIS)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 140 mg/m³ 25 ppm 175 mg/m³ (value calculated) 37,5 ppm (value calculated) 20 ppm (Turpentine and selected Monoterpenes) Sensitizer,A4 - Not Classifiable as a Human Carcinogen
.betaPinene (127-91- Belgium Estonia Estonia Estonia USA ACGIH Lithuania Lithuania Lithuania Norway Norway Norway Portugal Portugal Spain Spain	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:HMDFN1) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014) OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014) OEL TWA (Legal Basis:OELCAIS) OEL TWA (Legal Basis:OELCAIS) OEL Chemical Category (Legal Basis:OELCAIS)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 140 mg/m³ 25 ppm 175 mg/m³ (value calculated) 37,5 ppm (value calculated) 20 ppm (Turpentine and selected Monoterpenes) Sensitizer,A4 - Not Classifiable as a Human Carcinogen 113 mg/m³ 20 ppm Sensitizer
.betaPinene (127-91- Belgium Estonia Estonia Estonia Estonia USA ACGIH Lithuania Lithuania Lithuania Norway Norway Norway Norway Portugal Portugal Spain Spain Spain Spain	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:IMDFN1) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014) OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014) OEL TWA (Legal Basis:OELCAIS) OEL TWA (Legal Basis:OELCAIS) OEL TWA (Legal Basis:AFS 2018:1)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 140 mg/m³ 25 ppm 175 mg/m³ (value calculated) 37,5 ppm (value calculated) 20 ppm (Turpentine and selected Monoterpenes) Sensitizer,A4 - Not Classifiable as a Human Carcinogen 113 mg/m³ 20 ppm Sensitizer 150 mg/m³
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.betaPinene (127-91- Belgium Estonia Estonia Estonia Estonia USA ACGIH Lithuania Lithuania Lithuania Lithuania Norway Norway Norway Portugal Portugal Spain Spain Spain Sweden Sweden	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014) OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014) OEL TWA (Legal Basis:OELCAIS) OEL TWA (Legal Basis:OELCAIS) OEL TLV (Legal Basis:AFS 2018:1) OEL TLV (Legal Basis:AFS 2018:1) OEL STEL (Legal Basis:AFS 2018:1)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 140 mg/m³ 25 ppm 175 mg/m³ (value calculated) 37,5 ppm (value calculated) 20 ppm (Turpentine and selected Monoterpenes) Sensitizer,A4 - Not Classifiable as a Human Carcinogen 113 mg/m³ 20 ppm Sensitizer 150 mg/m³ 25 ppm 300 mg/m³
.betaPinene (127-91- Belgium Estonia Estonia Estonia Estonia USA ACGIH Lithuania Lithuania Lithuania Lithuania Norway Norway Norway Portugal Portugal Spain Spain Spain Sweden Sweden	OEL TWA (Legal Basis:Royal Decree 21/01/2020) OEL TWA (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL STEL (Legal Basis:Regulation No. 105) OEL TWA (Legal Basis:HN 20:2011) OEL TWA (Legal Basis:HN 23:2011) OEL TWA (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:HN 23:2011) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL TWA (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:FOR-2020-04-06-695) OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014) OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014) OEL TWA (Legal Basis:OELCAIS) OEL TWA (Legal Basis:AFS 2018:1) OEL TLV (Legal Basis:AFS 2018:1)	20 ppm 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 20 ppm (Turpentine and selected monoterpenes) 150 mg/m³ 25 ppm 300 mg/m³ 50 ppm 140 mg/m³ 25 ppm 175 mg/m³ (value calculated) 37,5 ppm (value calculated) 20 ppm (Turpentine and selected Monoterpenes) Sensitizer,A4 - Not Classifiable as a Human Carcinogen 113 mg/m³ 20 ppm Sensitizer 150 mg/m³ 25 ppm

22/08/2022 EN (English) 9/19

Safety Data Sheet

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

8.2. Exposure Controls

Appropriate Engineering Controls : For occupational/workplace settings: Ensure adequate ventilation, especially in

confined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Gas detectors should be used when flammable gases or vapours may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any

potential exposure.

Personal Protective Equipment : For occupational/workplace settings and bulk quantities: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.

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.









Materials for Protective Clothing

 $: \ \ For \ occupational/workplace \ settings: \ Chemically \ resistant \ materials \ and \ fabrics.$

Wear fire/flame resistant/retardant clothing.

Hand Protection : For occupational/workplace settings: Wear protective gloves. **Eye Protection** : For occupational/workplace settings: Chemical safety goggles.

Skin and Body Protection : For occupational/workplace settings: Wear suitable protective clothing.

Respiratory Protection : For occupational/workplace settings: 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.

Other Information : When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Gas
Colour, Appearance : Colourless

Odour : Comparable to reference

Odour Threshold : No data available
pH : Not applicable
Evaporation Rate : No data available
Melting Point : Not applicable
Freezing Point : Not applicable
Boiling Point : No data available
Flash Point : No data available
Flash Point : No data available

Auto-Ignition Temperature: Not availableDecomposition Temperature: No data availableFlammability: No data availableVapour Pressure: No data available

Relative Vapour Density At 20 °C: No data availableRelative Density: No data availableSolubility: Water: InsolublePartition Coefficient n-Octanol/Water: No data availableViscosity: No data available

Explosive Properties No data available **Oxidising Properties** : No data available **Explosive Limits** : Not available : Not applicable **Particle Aspect Ratio Particle Aggregation State** : Not applicable **Particle Agglomeration State** : Not applicable **Particle Specific Surface Area** Not applicable **Particle Dustiness** : Not applicable

22/08/2022 EN (English) 10/19

Safety Data Sheet

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

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reacts violently with strong oxidisers. Increased risk of fire or explosion.

10.2. Chemical Stability

This product is chemically stable.

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

10.5. Incompatible Materials

Strong acids, strong bases, 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, Inhalation, Eye

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
n-Butane (106-97-8)	
LC50 Inhalation Rat	30957 mg/m³ (Exposure time: 4 h)
LC50 Inhalation Rat	276798,8 ppm
Propane (74-98-6)	
LC50 Inhalation Rat	> 800000 ppm (Exposure time: 15 min)
Ethyl alcohol (64-17-5)	
LD50 Oral Rat	10470 mg/kg
LD50 Dermal Rat	20 ml/kg
LC50 Inhalation Rat	124,7 mg/l/4h
1,2,3-Propanetriol (56-81-5)	
LD50 Oral Rat	12600 mg/kg
LD50 Dermal Rabbit	> 10 g/kg
2-Phenoxyethanol (122-99-6)	
LD50 Oral Rat	1850 mg/kg
LD50 Dermal Rabbit	5 ml/kg
Benzyl acetate (140-11-4)	
LD50 Oral Rat	2490 mg/kg
LD50 Oral	2490 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
D-Limonene (5989-27-5)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 5 g/kg
.betaPinene (127-91-3)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Oral	4700 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
Skin Corrosion/Irritation	: Not classified (Based on available data, the classification criteria are not met)

Same Construction (Construction of Construction of the Constructio

Eye Damage/Irritation : Causes serious eye damage.

Respiratory or Skin Sensitization : Not classified (Based on available data, the classification criteria are not met)
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)

Benzyl acetate (140-11-4)	
IARC Group	3

22/08/2022 EN (English) 11/19

Safety Data Sheet

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

D-Limonene (5989-27-5)	
IARC Group	3
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.

Reproductive Toxicity : Not classified (Based on available data, the classification criteria are not met)

Specific Target Organ Toxicity (Single Exposure) : Not classified (Based on available data, the classification criteria are not

met)

Specific Target Organ Toxicity (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)

Symptoms/Injuries After Inhalation : Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact : Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact : Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms : None expected under normal conditions of use.

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.

strend set out in negariation (25) 2020/003/01 the substance(3) are not required to be discussed.	
Component	
Ethyl alcohol(64-17-5)	The substance is included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting
	properties, or is 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 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Hazardous To The Aquatic Environment, : Not classified (Based on available data, the classification criteria are not met)

Short-Term (Acute)

Hazardous To The Aquatic Environment, : Not classified (Based on available data, the classification criteria are not met)

Long-Term (Chronic)

Ethyl alcohol (64-17-5)		
LC50 - Fish [1]	11200 mg/l	
EC50 - Crustacea [1]	9268 – 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
ErC50 algae	1000 mg/l	
NOEC chronic crustacea	9,6 mg/l	
1,2,3-Propanetriol (56-81-5)		
LC50 - Fish [1]	54000 (51000 – 57000) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])	
2-Phenoxyethanol (122-99-6)		
LC50 - Fish [1]	344 mg/l	
EC50 - Crustacea [1]	> 500 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 - Fish [2]	366 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
Benzyl acetate (140-11-4)		
LC50 - Fish [1]	4 mg/l	
NOEC chronic fish	0,92 mg/l	
D-Limonene (5989-27-5)		
LC50 - Fish [1]	0,619 (0,619 – 0,796) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
EC50 - Crustacea [1]	0,421 mg/l	
LC50 - Fish [2]	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	
.betaPinene (127-91-3)		
LC50 - Fish [1]	0,5 mg/l	
40.0		

12.2. Persistence and Degradability

Batiste™ Waterless Conditioning Foam Tropical (EU GHS (2020/878))	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

Batiste™ Waterless Conditioning Foam Tropical (EU GHS (2020/878))	
Batiste™ Waterless Conditioning Foam Tropical (EU GHS (2020/878))	

22/08/2022 EN (English) 12/19

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

Bioaccumulative Potential	Not established.	
n-Butane (106-97-8)		
Log POW	2,89	
Isobutane (75-28-5)		
BCF Fish 1	1,57 – 1,97	
Log POW	2,88 (at 20 °C)	
Propane (74-98-6)		
Log POW	2,3	
Ethyl alcohol (64-17-5)		
Log POW	-0,32	
1,2,3-Propanetriol (56-81-5)		
BCF Fish 1	(no bioaccumulation)	
Log POW	-1,76	
2-Phenoxyethanol (122-99-6)		
Log POW	1,13 (at 25 °C)	
Benzyl acetate (140-11-4)		
Log POW	1,96	

12.4. **Mobility in Soil**

No additional information available

12.5. Results of PBT and vPvB Assessment

Component	
.betaPinene (127-91-3) This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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.

Component	
Ethyl alcohol (64-17-5)	Endocrine disrupting effects are not expected for the environment.

12.7. **Other Adverse Effects**

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Product/Packaging Disposal : Dispose of contents/container in accordance with local, regional, national, Recommendations

territorial, provincial, and international regulations. Do not pierce or burn, even

after use.

Additional Information : Hazardous waste (ignitable) due to the presence of flammable liquids and gases. Do

not puncture or incinerate container.

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

ADR	IMDG	IATA	ADN	RID	
14.1. UN Number or	14.1. UN Number or ID Number				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950	
14.2. UN Proper Shipping Name					
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS	

22/08/2022 EN (English) 13/19

Safety Data Sheet

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

ADR	IMDG	IATA	ADN	RID
14.3. Transpo	ort Hazard Class(Es)	·		
2.1	2.1	2.1	2.1	2.1
2	2	***	2	2
14.4. Packing	Group			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environ	mental Hazards	I		
Dangerous for th	e Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environment : No	environment : No	environment : No	environment : No	environment : No
	Marine pollutant : N	lo		

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(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	.betaPinene
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	Ethyl alcohol ; .betaPinene
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	Siloxanes and silicones, dimethyl, 3-hydroxypropyl methyl, ethoxylated; 2-Phenoxyethanol; Mirataine CB; .betaPinene
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.	n-Butane ; Isobutane ; Propane ; Ethyl alcohol ; .betaPinene

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

15.1.1.7. EC Inventory Information

n-Butane (106-97-8)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

22/08/2022 EN (English) 14/19

Safety Data Sheet

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

Isobutane	

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Propane (74-98-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Ethyl alcohol (64-17-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

1,2,3-Propanetriol (56-81-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

2-Phenoxyethanol (122-99-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Benzyl acetate (140-11-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

D-Limonene (5989-27-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

.beta.-Pinene (127-91-3)

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

n-Butane (106-97-8)

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)

Isobutane (75-28-5)

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)

Propane (74-98-6)

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)

Ethyl alcohol (64-17-5)

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)

22/08/2022 EN (English) 15/19

Safety Data Sheet

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

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)

1,2,3-Propanetriol (56-81-5)

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)

Siloxanes and silicones, dimethyl, 3-hydroxypropyl methyl, ethoxylated (68937-54-2)

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 the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemicals Inventory)

2-Phenoxyethanol (122-99-6)

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)

Mirataine CB (86438-79-1)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

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)

Benzyl acetate (140-11-4)

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 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)

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)

22/08/2022 EN (English) 16/19

Safety Data Sheet

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

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)

.beta.-Pinene (127-91-3)

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)

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

: 22/08/2022

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. 4 (Oral)	Acute toxicity (oral), Category 4	
Aerosol 1	Aerosol, Category 1	
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 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. Gas 1A	Flammable gases, Category 1A	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
H220	Extremely flammable gas.	
H222	Extremely flammable aerosol.	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H229	Pressurised container: May burst if heated.	
H280	Contains gas under pressure; may explode if heated.	
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.	
H335	May cause respiratory irritation.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	

22/08/2022 EN (English) 17/19

Safety Data Sheet

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

Press. Gas	Gases under pressure
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
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]:

Aerosol 1	Expert judgment
Eye Dam. 1	Calculation method

Indication of Changes

No additional information available

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
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

 ${\sf MARPOL-International\ Convention\ for\ the\ Prevention\ of\ Pollution}$

NDS - Najwyzsze Dopuszczalne Stezenie

NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe NOAEL - No-Observed Adverse Effect Level

NOEC - No-Observed Effect Concentration

NRD - Nevirsytinas Ribinis Dydis 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-EC - 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 amendements

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 - BGBI. 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) & BGBI. II No. 242/2006, BGBI. II No. 243/2007, lastly changed through BGBI. I Nr. 51/2011), BGBI. II Nr. 186/2015, BGBI. II Nr. 288/2017 amended by BGBI. II Nr. 254/2018.

Austria - BLV BGBI. II Nr. 254/2018 - Ordinance on health monitoring at the workplace 2008, published through BGBI. II Nr. 224/2007 by Austria Minister

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

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

22/08/2022 EN (English) 18/19

Safety Data Sheet

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

for Labor and Social Affairs, Lastly changed through BGBI. 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 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.

Church&Dwight EU GHS SDS (2020/878)

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-

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.

N°684 of 2018

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

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22/08/2022 EN (English) 19/19