Batiste™ 24H (EU GHS (2020/878))

Safety Data Sheet

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

Date of Issue: 19/06/2023 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™ 24H (EU GHS (2020/878))

Product Code : ASM102-021, ASM102-022

Synonyms : Batiste™ 24H Active, Batiste™ 24H Fresh

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

No additional information available

1.3. Details of the Supplier of the Safety Data Sheet

Company
Church & Dwight UK
Wear Bay Road, CT19 6PG
Folkestone, Kent – United Kingdom
+ 44 0800 121 6080 (Mon - Friday 9am - 4:30pm)
www.churchdwight.com
consumer.relationsUK@churchdwight.com

Company
Sofibel
110-114 RUE VICTOR HUGO
92300 LEVALLOIS PERRET
FRANCE
Téléphone :01.49.68.41.00
www.churchdwight.com

1.4. Emergency Telephone Number

Emergency Number : (+44) 08706006266 (24 hours) UK national information service;
(+44) 0800 1216080 (Mon - Friday 9am - 4:30pm)
For Medical Emergency: 1-888-234-1828 (USA and Canada), 952-853-1925 (Outside USA and Canada);
For Chemical Emergency: VelocityEHS (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

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) :

GHS02

Signal Word (CLP) : Danger

Hazard Statements (CLP) : H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.

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.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3. Other Hazards

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

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 substance with national workplace exposure limit(s) (AT, BE, BG, DE, DK, EE, FI, FR, GB, GR, HR, HU, IE, LV, PL, SI, NO, CH)	(CAS-No.) 106-97-8 (EC-No.) 203-448-7 (EC Index-No.) 601-004-00-0	40 - 50	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Isobutane substance with national workplace exposure limit(s) (AT, DE, EE, FI, SI, CH)	(CAS-No.) 75-28-5 (EC-No.) 200-857-2 (EC Index-No.) 601-004-00-0	20 – 30	Flam. Gas 1A, H220 Press. Gas
Propane substance with national workplace exposure limit(s) (AT, BE, BG, DE, DK, EE, FI, GR, IE, LV, PL, PT, RO, SI, NO, CH)	(CAS-No.) 74-98-6 (EC-No.) 200-827-9 (EC Index-No.) 601-003-00-5	10 – 20	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
Starch substance with national workplace exposure limit(s) (BE, BG, CZ, ES, GB, GR, HR, IE, PT, CH)	(CAS-No.) 9005-25-8 (EC-No.) 232-679-6	5 – 10	Not classified
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 – 7	Flam. Liq. 2, H225
Sodium bicarbonate substance with national workplace exposure limit(s) (CZ, LV)	(CAS-No.) 144-55-8 (EC-No.) 205-633-8	0,1 – 1	Not classified
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	0,00035 – 0,0014	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

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

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-Aid Measures General : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-Aid Measures After Inhalation : Obtain medical attention if breathing difficulty persists. 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 : Immediately remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists. 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 : Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-Aid Measures After Ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Effects : Contact with gas escaping the container can cause frostbite. Asphyxia by lack of oxygen: risk of death.

Symptoms/Effects After Inhalation : 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 : Contact with gas escaping the container can cause frostbite and freeze burns. May cause an allergic reaction in sensitive individuals.

Symptoms/Effects After Eye Contact : Contact with gas escaping the container can cause frostbite, freeze burns, and permanent eye damage.

Symptoms/Effects After Ingestion : Not considered a potential route of exposure, but contact with gas 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 (CO_2), 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 : Container may explode in heat of fire. 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, CO_2). Smoke.

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. Fight fire remotely due to the risk of explosion. 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 get in eyes, on skin, or on clothing. Do not breathe dust, gas.

6.1.1. For Non-Emergency Personnel

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

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

Measures In Case Of Dust Release : Dust suppressant. Contains substances that are combustible dusts. If solution dries and dust becomes dispersed with an ignition source, may cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.

6.1.2. For Emergency Responders

Protective Equipment : Equip cleanup crew with proper protection.

Emergency Procedures : Upon arrival at the scene, a first responder is expected to recognise the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Evacuate unnecessary personnel, isolate, and ventilate area. Eliminate ignition sources first, then ventilate the area.

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. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up : Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Stop the source of the release, if safe to do so. Consider the use of water spray to disperse vapors. Isolate the area until gas has dispersed. Ventilate and gas test area before entering.

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 : Do not pressurize, cut, or weld containers. Ruptured cylinders may rocket. Pressurised container: May burst if heated. Do not pierce or burn, even after use. Asphyxiating gas at high concentrations.

Precautions for Safe Handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Do not spray on an open flame or other ignition source. Do not breathe gas, dust.

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

7.2. 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.

Incompatible Materials : Strong acids, strong bases, strong oxidisers.

7.3. Specific End Use(S)

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)		
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
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/m³
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
Slovenia	OEL STEL (Legal Basis:No. 79/19)	4000 ppm
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 (including Butane (all isomers)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	800 ppm (including Butane (all isomers)

Propane (74-98-6)		
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	1800 mg/m³
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	1000 ppm
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	3600 mg/m³

Austria	OEL STEL (Legal Basis:BGBl. 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
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	1800 mg/m³
Estonia	OEL 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 - Alkanes (C1-C4))
Ireland	OEL Chemical Category (Legal Basis:Decree No. 05/2020)	Simple asphyxiant
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

Starch (9005-25-8)		
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	10 mg/m³
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	10 mg/m³ (dust, inhalable fraction (Plant origin dust)
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	4 mg/m³ (respirable dust) 10 mg/m³ (total dust, inhalable particles)
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	4 mg/m³ (dust)
Greece	OEL TWA (Legal Basis:PWHSE)	10 mg/m³ (inhalable fraction) 5 mg/m³ (respirable fraction)
Ireland	OEL TWA (Legal Basis:2020 COP)	10 mg/m³ (total inhalable dust) 4 mg/m³ (respirable dust)
Ireland	OEL STEL (Legal Basis:2020 COP)	30 mg/m³ (calculated-respirable dust (Borates) 12 mg/m³ (calculated)
USA ACGIH	OEL TWA (Legal Basis:IMDFN1)	10 mg/m³
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	10 mg/m³
Portugal	OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014)	A4 - Not Classifiable as a Human Carcinogen
Spain	OEL TWA (Legal Basis:OELCAIS)	10 mg/m³
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	3 mg/m³ (respirable dust)

Sodium bicarbonate (144-55-8)		
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	5 mg/m³
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	5 mg/m³

Ethyl alcohol (64-17-5)		
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	1900 mg/m³
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	1000 ppm
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	3800 mg/m³
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	2000 ppm
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	1907 mg/m³
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	1000 ppm
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	1000 mg/m³
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	1900 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
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	1000 ppm
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	2500 mg/m³
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	1300 ppm
France	OEL STEL (Legal Basis:INRS ED 984)	9500 mg/m³
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:TRGS 900)	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Greece	OEL TWA (Legal Basis:PWHSE)	1900 mg/m³
Greece	OEL TWA (Legal Basis:PWHSE)	1000 ppm
Hungary	OEL TWA (Legal Basis:Decree No. 05/2020)	1900 mg/m³
Hungary	OEL STEL (Legal Basis:Decree No. 05/2020)	3800 mg/m³
Ireland	OEL STEL (Legal Basis:2020 COP)	1000 ppm
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:A-N 684)	1000 ppm
Netherlands	OEL TWA (Legal Basis:OWCRLV)	260 mg/m³
Netherlands	OEL STEL (Legal Basis:OWCRLV)	1900 mg/m³
Netherlands	OEL Chemical Category (Legal Basis:OWCRLV)	Skin notation
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	950 mg/m³
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	500 ppm
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:Dz. U. 2020 Nr. 61)	1900 mg/m³
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	1000 ppm
Portugal	OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014)	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	1900 mg/m³
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	1000 ppm
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	9500 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)	500 ppm
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 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

D-Limonene (5989-27-5)		
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/m³
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

8.2. Exposure Controls

Appropriate Engineering Controls : For occupational/workplace settings: Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Use explosion-proof equipment. Gas detectors should be used when flammable gases or vapours may be released. Proper grounding procedures to avoid static electricity should be followed. Oxygen detectors should be used when asphixiating gases may be released.

Personal Protective Equipment : For occupational/workplace settings: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Respiratory protection of the dependent type. 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. If material is cold, wear thermally resistant 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: Use a NIOSH-approved self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Thermal Hazard Protection : For occupational/workplace settings: Wear thermally resistant protective clothing.

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	: Aerosol
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
Auto-Ignition Temperature	: Not available
Decomposition Temperature	: No data available
Flammability	: No data available
Vapour Pressure	: No data available
Relative Vapour Density At 20°C	: No data available
Relative Density	: No data available
Solubility	: No data available
Partition Coefficient n-Octanol/Water	: No data available
Viscosity	: No data available
Explosive Properties	: Contains gas under pressure; may explode if heated.
Oxidising Properties	: No data available
Explosive Limits	: Not available
Particle Aspect Ratio	: Not applicable
Particle Aggregation State	: Not applicable
Particle Agglomeration State	: Not applicable
Particle Specific Surface Area	: Not applicable
Particle Dustiness	: Not applicable

9.2. Other Information

% of flammable ingredients	: 92,0334
Gas Group	: Compressed gas
Gas group	: Compressed gas

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

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

10.2. Chemical Stability
Contains gas under pressure; may explode if heated. Flammable aerosol. Pressurized container: may burst if heated.

10.3. Possibility of Hazardous Reactions
Hazardous polymerization will not occur.

10.4. Conditions to Avoid
Direct sunlight, extremely high or low temperatures, open flames, sources of ignition and incompatible materials. 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
Thermal decomposition may produce: Carbon oxides (CO, CO_2). Smoke.

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 contact

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)

n-Butane (106-97-8)	
LC50 Inhalation Rat	30957 mg/m³ (Exposure time: 4 h)

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
ATE CLP (dermal)	15.780,00 mg/kg bodyweight

D-Limonene (5989-27-5)	
LD50 Oral Rat	4400 mg/kg
LD50 Dermal Rabbit	> 5 g/kg

Skin Corrosion/Irritation : Not classified (Based on available data, the classification criteria are not met)

Eye Damage/Irritation : Not classified (Based on available data, the classification criteria are not met)

Respiratory or Skin Sensitisation : 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)

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 : 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/Injuries After Skin Contact : Contact with gas escaping the container can cause frostbite and freeze burns. May cause an allergic reaction in sensitive individuals.

Symptoms/Injuries After Eye Contact : Contact with gas escaping the container can cause frostbite, freeze burns, and permanent eye damage.

Symptoms/Injuries After Ingestion : Not considered a potential route of exposure, but contact with gas escaping the container can cause freeze burns and frostbite.

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.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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

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

Sodium bicarbonate (144-55-8)	
LC50 - Fish [1]	8250 – 9000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	2350 mg/l (Exposure time: 48 h - Species: Daphnia magna)

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

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)

12.2. Persistence and Degradability

Batiste™ 24H (EU GHS (2020/878))	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

Batiste™ 24H (EU GHS (2020/878))	
Bioaccumulative Potential	Not established.

n-Butane (106-97-8)	
Partition coefficient n-octanol/water (Log Pow)	2,31 (at 20 °C (at pH 7)

Isobutane (75-28-5)	
BCF Fish 1	1,57 – 1,97
Partition coefficient n-octanol/water (Log Pow)	1,09 – 2,8 (at 20 °C (at pH 7)

Propane (74-98-6)	
Partition coefficient n-octanol/water (Log Pow)	1,09 (at 20 °C (at pH 7)

Ethyl alcohol (64-17-5)	
Partition coefficient n-octanol/water (Log Pow)	-0,35 (at 24 °C (at pH 7.4)

D-Limonene (5989-27-5)	
Partition coefficient n-octanol/water (Log Pow)	4,38 (at 37 °C (at pH 7.2)

12.4. Mobility in Soil

No additional information available

12.5. Results of PBT and vPvB Assessment

Does not contain any PBT/vPvB substances >= 0.1% assessed in accordance with REACH Annex XVIII

12.6. Endocrine Disrupting Properties

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

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

D-Limonene (5989-27-5)	Shows an adverse effect in an intact organism or its progeny, which is a change in the morphology, physiology, growth, development, reproduction or life span of an organism, system or (sub)population that results in an impairment of functional capacity, an impairment of the capacity to compensate for additional stress or an increase in susceptibility to other influences.

12.7. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Product/Packaging Disposal Recommendations : Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations. Do not pierce or burn, even after use.

Additional Information : Empty gas cylinders should be returned to the vendor for recycling or refilling. 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 / AND

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

14.3. Transport Hazard Class(Es)

2.1	2.1	2.1	2.1	2.1
				

14.4. Packing Group

Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

14.5. Environmental Hazards

Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

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

Listed on REACH Annex XVII (Restriction Conditions). The following restrictions are applicable:

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	D-Limonene
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	D-Limonene
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 ; D-Limonene
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	n-Butane ; Isobutane ; Propane ; Ethyl alcohol ; D-Limonene

15.1.1.2. REACH Candidate List Information

Contains no substance(s) listed on the REACH Candidate List

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

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

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

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

15.1.1.5. REACH Annex XIV Information

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

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)
Isobutane (75-28-5)
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)
Starch (9005-25-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Sodium bicarbonate (144-55-8)
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)
D-Limonene (5989-27-5)
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 Chemical 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 Chemical 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 Chemical Inventory)

Starch (9005-25-8)

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

Sodium bicarbonate (144-55-8)

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

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

Date of Preparation or Latest Revision : 19/06/2023

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:

Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
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.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
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. 1B	Skin sensitisation, category 1B

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

Aerosol 1	On basis of test data

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
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

EmS-No. (Spillage) - IMDG Emergency Schedule Spillage
EU – European Union
ErC50 - EC50 in Terms of Reduction Growth Rate
GHS – Globally Harmonized System of Classification and Labeling of Chemicals
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC Code - International Bulk Chemical Code
IMDG - International Maritime Dangerous Goods
IPRV - Ilgalaikio Poveikio Ribinis Dydis
IOELV – Indicative Occupational Exposure Limit Value
LC50 - Median Lethal Concentration
LD50 - Median Lethal Dose
LOAEL - Lowest Observed Adverse Effect Level
LOEC - Lowest-Observed-Effect Concentration
Log Koc - Soil Organic Carbon-water Partitioning Coefficient
Log Kow - Octanol/water Partition Coefficient
Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water
MAK – Maximum Workplace Concentration/Maximum Permissible Concentration
MARPOL - International Convention for the Prevention of Pollution
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 - BGBl. II Nr. 254/2018 - Ordinance on Limit Values for Workplace Substances and on Carcinogens from the Federal Ministry of Economics and Labour, Published in 2003, Appendix 1: Substance List, Published through: Ministry of Economics and Labour of the Republic of Austria amended through the Government Gazette II (BGBL. II) No 119/2004) & BGBI. II No. 242/2006, BGBI. II No. 243/2007, lastly changed through BGBl. I Nr. 51/2011), BGBl. II Nr. 186/2015, BGBl. II Nr. 288/2017 amended by BGBl. II Nr. 254/2018.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

EU GHS SDS (2020/878)

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.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.