

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 22 Oct 2025

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Version: 7



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Clima Cleaner lemon 400ml

SECTION 1: Identification of the substance/mixture and of the company/undertaking

* 1.1. Product identifier

Trade name/designation:

Clima Cleaner lemon 400ml

Article No.:

T902114

UFI:

RTJC-WJCR-4Y2A-PVHD

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

Use of the substance/mixture:

Cleaner for air conditioners

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

* 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
aerosol dispensers and lighters (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	On basis of test data.
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation method.

* 2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark

Signal word: Danger

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Hazard components for labelling:

(R)-p-mentha-1,8-diene; citral; (S)-p-mentha-1,8-diene; Cubeb root (Litsea cubeba) fruit oil; Rectified Hydrocarbons by- products from synthetic process of Turpentine and acid, alcohols fraction; Orange, süß, Extrakt

Hazard statements for physical hazards

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

Hazard statements for health hazards

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Supplemental hazard information: none

Precautionary statements Prevention

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.

Precautionary statements Storage

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

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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Additional information:

Regulation (EC) No. 648/2004 [Detergents regulation]: < 30% aliphatic hydrocarbons; Fragrances, citral, Limonene, Citrus Aurantium Peel Oil;
Preservative: Didecyldimethylammonium chloride

2.3. Other hazards

Other adverse effects:

Based on the available information, the product does not contain any PBT or vPvB substances in content percentages $\geq 0.1\%$.
The product does not contain any substances with endocrine-disrupting properties in concentrations of $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

Additional information:

The product is an aerosol containing propellants. With regard to the calculation of health hazards, the propellants are not taken into account (unless they constitute a health hazard). The percentages given include the propellants.

Percentage of blowing agents: 75,50 %

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Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5 REACH No.: 01-2119486944-21	propane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger Acute Toxicity Estimate ATE (oral) 5,840 mg/kg ATE (dermal) 13,900 mg/kg ATE (inhalation, gases) > 25 ppmV ATE (inhalation, vapour) ≥ 50 mg/L ----- Additional information: Note: U	≥ 33 - 37 weight-%
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32	butane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger ----- Additional information: Note: C, U	≥ 25 - 29 weight-%
CAS No.: 64-17-5 EC No.: 200-578-6 REACH No.: 01-2119457610-43	ethanol Eye Irrit. 2 (H319), Flam. Liq. 2 (H225) Danger Acute Toxicity Estimate ATE (oral) 10,470 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 20 mg/L	≥ 20 - 22.5 weight-%
CAS No.: 75-28-5 EC No.: 200-857-2 REACH No.: 01-2119485395-27	Isobutane (with < 0.1 % butadiene (203-450-8)) Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger Acute Toxicity Estimate ATE (inhalation, vapour) 52,000 mg/L ----- Additional information: Note: C, U	≥ 12.5 - 14 weight-%
CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH No.: 01-2119457558-25	propan-2-ol Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) > 25 ppmV ATE (inhalation, vapour) > 20 mg/L	≥ 2 - 2.5 weight-%
CAS No.: 5989-27-5 EC No.: 227-813-5 Index No.: 601-096-00-2 REACH No.: 01-2119529223-47-XXXX	(R)-p-mentha-1,8-diene Aquatic Acute 1 (H400), Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Danger M-factor (acute): 1 Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 5,000 mg/kg	≥ 0.25 - 0.3 weight-%
EC No.: 949-141-8 REACH No.: 01-2120789752-39-XXXX	Rectified Hydrocarbons by- products from synthetic process of Turpentine and acid, alcohols fraction Asp. Tox. 1 (H304), Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Danger Acute Toxicity Estimate ATE (oral) 3,200 mg/kg ATE (dermal) 5,000 mg/kg	≥ 0.2 - 0.25 weight-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 8028-48-6 EC No.: 232-433-8 REACH No.: 01-2119493353-35-XXXX	Orange, süß, Extrakt Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Danger M-factor (chronic): 1 Acute Toxicity Estimate ATE (oral) 200 mg/kg ATE (dermal) 500 mg/kg ATE (inhalation, dust/mist) 500 mg/L	≥ 0.2 - 0.25 weight-%
CAS No.: 7173-51-5 EC No.: 230-525-2 Index No.: 612-131-00-6 REACH No.: 01-2119945987-15-XXXX	didecyltrimethylammonium chloride Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411), Eye Dam. 1 (H318), Skin Corr. 1B (H314) Danger M-factor (acute): 10 Acute Toxicity Estimate ATE (oral) 300.03 mg/kg ATE (dermal) 3,342 mg/kg	≥ 0.1 - 0.15 weight-%
CAS No.: 5989-54-8 EC No.: 227-815-6 Index No.: 601-029-00-7 REACH No.: 01-2119958629-18-XXXX	(S)-p-mentha-1,8-diene Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Danger M-factor (chronic): 1 Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg	≥ 0.05 - 0.1 weight-%
CAS No.: 68855-99-2 EC No.: 290-018-7 REACH No.: 01-2120118332-70-XXXX	Cubeb root (Litsea cubeba) fruit oil Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Danger	≥ 0.05 - 0.1 weight-%
CAS No.: 5392-40-5 EC No.: 226-394-6 Index No.: 605-019-00-3 REACH No.: 01-2119462829-23-XXXX	citral Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Warning Acute Toxicity Estimate ATE (oral) 4,960 mg/kg ATE (dermal) 2,250 mg/kg	≥ 0.05 - 0.1 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

* 4.1. Description of first aid measures

General information:

If in doubt or if symptoms occur, consult a doctor and show them this document. In the event of severe symptoms, call the emergency services immediately.

Following inhalation:

A doctor must be consulted immediately. The person concerned shall be carried outside, away from the scene of the accident. If breathing stops, artificial respiration shall be given. The appropriate measures for the rescuer are to be taken.

In case of skin contact:

Immediately remove any contaminated clothing, shoes or stockings. After contact with skin, wash immediately with water and soap. A doctor must be consulted immediately. Avoid contact with contaminated clothing.

After eye contact:

Rinse opened eye immediately with plenty of water for at least 15 minutes. Remove contact lenses. If symptoms persist, consult a doctor.

Following ingestion:

The largest possible amount of water must be administered. Vomiting must not be induced unless specifically ordered by the doctor. Never give anything by mouth to an unconscious person! A doctor must be consulted immediately.

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Self-protection of the first aider:

The emergency responder assisting a person who has been exposed to a chemical substance or mixture should wear personal protective equipment. The type of equipment depends on the hazard of the substance or mixture, the nature of the exposure and the extent of the contamination. If no other specific information is given, disposable gloves should be worn in case of possible contact with biological fluids. For the type of PPE appropriate and the characteristics of the substance or mixture, see Section 8.

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

There is no known specific information on symptoms and effects caused by this product.

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

If skin irritation or rash occurs: Get medical advice/attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide, Foam, Extinguishing powder, Water mist

5.2. Special hazards arising from the substance or mixture

If overheated, there is a risk that aerosol containers will deform, burst and be hurled a considerable distance. Before approaching the fire, one must put on a protective helmet. Avoid inhalation of combustion products.

5.3. Advice for firefighters

General information

The containers shall be cooled with water jets to prevent the decomposition of the product and the formation of potentially harmful substances. Complete fire protective clothing must be worn at all times.

Personal protection equipment:

Normal firefighting clothing, e.g. an open-circuit compressed air respirator (EN 137) firefighting kit (EN469), firefighting gloves (EN 659) and firefighting boots (HO A 29 or A30)

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Any source of ignition (cigarettes, flames, sparks, etc.) or heat must be disposed of from the area where the product has been spilled. Remove persons without protective clothing from the site.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Allow to be absorbed by absorbent material. Provide adequate ventilation.

Other information:

Contaminated material must be disposed of in accordance with the regulations under point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Accumulation of electrostatic charges must be avoided.

Fire prevent measures:

It must not be sprayed into flames or onto glowing bodies.

Measures to prevent aerosol and dust generation:

Vapours can ignite with an explosion, so prevent accumulation by keeping doors and windows open with a draught.

Advices on general occupational hygiene

Do not eat, drink or smoke when using the product. Do not inhale aerosol.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

It must be kept in a well-ventilated area, away from direct sunlight, at temperatures below 50°C / 122°F and away from any source of combustion.

Storage class (TRGS 510, Germany): 2B – Aerosol dispensers and lighters

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

* 8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	propane CAS No.: 74-98-6 EC No.: 200-827-9	② 2,000 ppm (3,600 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m ³)
MAK (AT)	butane CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m ³)
MAK (AT)	butane CAS No.: 106-97-8 EC No.: 203-448-7	② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	butane CAS No.: 106-97-8 EC No.: 203-448-7	② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./SchichtMomentanwert)
MAK (AT)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³)
MAK (AT)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	② 2,000 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	Isobutane (with < 0.1 % butadiene (203-450-8)) CAS No.: 75-28-5 EC No.: 200-857-2	② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./SchichtMomentanwert)

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	Isobutane (with < 0.1 % butadiene (203-450-8)) CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m ³)
MAK (AT)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	② 800 ppm (2,000 mg/m ³) ⑤ (max. 4x15 min./Schicht)
MAK (AT)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm (500 mg/m ³)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	500 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	89 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	888 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	319 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	26 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	33.3 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	8.3 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	0.222 mg/kg	① DNEL worker ② Acute - dermal, local effects
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	0.111 mg/kg	① DNEL Consumer ② Acute - dermal, local effects
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	4.76 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects
Substance name	PNEC Value	① PNEC type
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, marine water

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Substance name	PNEC Value	① PNEC type
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	2,251 mg/L	① PNEC sewage treatment plant
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	28 mg/kg	① PNEC soil
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, intermittent release
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	0.0054 mg/L	① PNEC aquatic, freshwater
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	0.00054 mg/L	① PNEC aquatic, marine water
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	1.8 mg/L	① PNEC sewage treatment plant
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	1.32 mg/kg	① PNEC sediment, freshwater
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	0.13 mg/kg	① PNEC sediment, marine water
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	0.262 mg/kg	① PNEC soil
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	3.33 mg/kg	① PNEC secondary poisoning
didecyldimethylammonium chloride CAS No.: 7173-51-5 EC No.: 230-525-2	0.0011 mg/L	① PNEC aquatic, freshwater
didecyldimethylammonium chloride CAS No.: 7173-51-5 EC No.: 230-525-2	0.00011 mg/L	① PNEC aquatic, marine water
didecyldimethylammonium chloride CAS No.: 7173-51-5 EC No.: 230-525-2	0.14 mg/L	① PNEC sewage treatment plant
didecyldimethylammonium chloride CAS No.: 7173-51-5 EC No.: 230-525-2	61.86 mg/kg	① PNEC sediment, freshwater
didecyldimethylammonium chloride CAS No.: 7173-51-5 EC No.: 230-525-2	6.186 mg/kg	① PNEC sediment, marine water
didecyldimethylammonium chloride CAS No.: 7173-51-5 EC No.: 230-525-2	1.4 mg/kg	① PNEC soil

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

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8.2.2. Personal protection equipment

Eye/face protection:

The use of penetration-proof goggles is recommended (ref. standard EN 16321).

Skin protection:

Hand protection:

The hands must be protected with category III work gloves (ref. standard EN 374). For the final choice of material for the work gloves, the following aspects must be included: Compatibility, degradation, breaking time and permeability. In the case of preparations, the work glove resistance to chemical agents must be tested before use, as it is unpredictable. Glove wear time is conditioned by exposure time and modes of use.

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough time: 480 min

Suitable material: Butyl caoutchouc (butyl rubber) (IIR)

Thickness of the glove material: 0,7 mm

Breakthrough time: 480 min

Skin protection:

Work clothing with long sleeves and category III accident protection footwear must be worn (see Regulation 2016/425 and standard EN ISO 20344). After taking off the protective clothing, one must wash with soap and water.

Respiratory protection:

If the threshold value (e.g. TLV-TWA) of the substance or one or more substances contained in the product is exceeded, it is recommended to wear a mask with filter type AX in combination with a filter type P (ref. standard EN 14387).

If the technical measures taken are not sufficient to reduce the exposure of the worker to the thresholds considered, the use of respiratory protective devices is necessary. The protection provided by the mask is limited in any case.

Other protection measures:

Considering that appropriate protective measures should always take precedence over personal protective clothing, ensure that the workplace is well ventilated by effective local exhaust ventilation. For the selection of personal protective equipment, the trusted chemical manufacturers may need to be consulted. The personal protective equipment must be CE marked to indicate its suitability for the applicable regulations.

Emergency stop showers with face-eye-rinsing are to be provided.

8.2.3. Environmental exposure controls

Emissions from manufacturing processes, including those from ventilation equipment, should be checked for compliance with environmental legislation.

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Form: Aerosol

Colour: colourless

Odour: characteristic

flammability: No data available

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	not applicable	② Mixture is not polar/aprotic.
Melting point	-185 °C	① Reg. (EC) N° 440/2008 Annex, A1 ② Propellant gas

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Parameter	Value	① Method ② Remark
Freezing point	-185 °C	① Reg. (EC) N° 440/2008 Annex, A1 ② Propellant gas
Initial boiling point and boiling range	-161 °C	① Reg. (EC) N° 440/2008 Annex, A 2 ② Propellant gas
Flash point	-100 °C	① Reg. (EC) N°440/2008 Annex, A 11 ② Propellant gas
Evaporation rate	No data available	
Auto-ignition temperature	> 288 °C	① Reg. (EC) N°440/2008 Annex, A 15 ② Propellant gas
Upper/lower flammability or explosive limits	1.8 – 9.5 %	① Reg. (EC) N° 440/2008 Annex A 14. ② Propellant gas
Vapour pressure	No data available	
Vapour density		② >1 (air=1) liquid
Density	0.605 g/cm ³	① ASTM D 1298 ② Temperature: 20 °C
Bulk density	not applicable	
Water solubility	miscible	① Regulation (EC) N°440/2008 Annex, A 6 ② Temperature: 20 °C
Dynamic viscosity	No data available	
Kinematic viscosity	No data available	

particle characteristics:

not applicable

* 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Flammable gases:

Flammable Aerosols (Reg. (EC) N. 440/2008 Annex, A 10)

Oxidizing liquids:

Not oxidizing.

Oxidizing solids:

Not oxidizing.

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 98,90 % - 598,35 g/l

VOC (volatile carbon) 64,00 % - 387,19 g/l

SECTION 10: Stability and reactivity

* 10.1. Reactivity

No special reaction hazards with other substances under normal conditions of use.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

(R)-p-mentha-1,8-diene

Chemically stable under conditions of storage, handling and use.

* 10.3. Possibility of hazardous reactions

Under normal conditions of use and storage, no hazardous reactions are foreseen.

ETHANOL

Explosion hazard on contact with: Alkali metals, alkali oxides, calcium hypochlorite, sulphur monofluoride, acetic anhydride, acids, concentrated hydrogen peroxide, perchlorates, perchloric acid, perchloronitrile,

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mercuric nitrate, nitric acid, silver, silver nitrate, ammonia, silver oxide, ammonia, strong oxidising agents, nitrogen dioxide. May react dangerously with: Bromoacetylene, chloroacetylene, bromine trifluoride, chromium trioxide, chromium (VI) oxide dichloride, fluorine, potassium tert-butanolate, lithium hydride, phosphorus trioxide, platinum mohl, zirconium (IV) chloride, zirconium (IV) iodide. Forms explosive mixtures with: air

(R)-P-MENTHADIEN-1,8

May react dangerously with: Strong oxidising agents, mineral acids

* 10.4. Conditions to avoid

Avoid heating.

ETHANOL

Avoid exposure to: Heat sources, open flames

(R)-P-MENTHADIEN-1,8

Avoid exposure to: Heat, open flames, electrostatic discharges

* 10.5. Incompatible materials

Strong reducing and oxidising agents, strong bases and acids, materials at high temperatures.

ETHANOL

Incompatible with: Acids Oxidizing agent Alkali metals Ammonia (NH₃)

(R)-P-MENTHADIEN-1,8

Incompatible with: Strong acid Oxidizing agent

* 10.6. Hazardous decomposition products

ETHANOL

toxic gases Carbon monoxide Carbon dioxide

(R)-P-MENTHADIEN-1,8

Carbon dioxide Nitric oxide

SECTION 11: Toxicological information

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

ethanol	CAS No.: 64-17-5	EC No.: 200-578-6
ATE (oral): 10,470 mg/kg		
LD₅₀ oral: >2,000 mg/kg (Rat) IUCLID		
LD₅₀ dermal: >2,000 mg/kg (Rat)		
LC₅₀ Acute inhalation toxicity (vapour): >20 mg/L (Rat) RTECS		
Isobutane (with < 0.1 % butadiene (203-450-8))	CAS No.: 75-28-5	EC No.: 200-857-2
LC₅₀ Acute inhalation toxicity (vapour): 52,000 mg/L 2 h (Rat)		
propan-2-ol	CAS No.: 67-63-0	EC No.: 200-661-7
LD₅₀ oral: >2,000 mg/kg (Rat)		
LD₅₀ dermal: >2,000 mg/kg (Rat)		
LC₅₀ Acute inhalation toxicity (gas): >25 ppmV 4 h (Rat)		
LC₅₀ Acute inhalation toxicity (vapour): >20 mg/L 6 h (Rat)		
(R)-p-mentha-1,8-diene	CAS No.: 5989-27-5	EC No.: 227-813-5
LD₅₀ oral: >2,000 mg/kg (Rat)		
LD₅₀ dermal: >5,000 mg/kg (Rabbit)		
Rectified Hydrocarbons by- products from synthetic process of Turpentine and acid, alcohols fraction		
EC No.: 949-141-8		
LD₅₀ oral: 3,200 mg/kg (Rat)		
LD₅₀ dermal: 5,000 mg/kg (Rabbit)		

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Orange, süß, Extrakt CAS No.: 8028-48-6 EC No.: 232-433-8

LD₅₀ oral: 200 mg/kg (Rat)

LD₅₀ dermal: 500 mg/kg (Rat)

LC₅₀ Acute inhalation toxicity (dust/mist): 500 mg/L 4 h (Rat)

didecyldimethylammonium chloride CAS No.: 7173-51-5 EC No.: 230-525-2

LD₅₀ oral: 300.03 mg/kg (Rat)

LD₅₀ dermal: 3,342 mg/kg (Rabbit)

(S)-p-mentha-1,8-diene CAS No.: 5989-54-8 EC No.: 227-815-6

LD₅₀ oral: >2,000 mg/kg

LD₅₀ dermal: >2,000 mg/kg

citral CAS No.: 5392-40-5 EC No.: 226-394-6

LD₅₀ oral: 4,960 mg/kg (Rat)

LD₅₀ dermal: 2,250 mg/kg (Rabbit)

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Does not fall under the classification criteria of this hazard class.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

Sensitising to the skin.

Germ cell mutagenicity:

Does not fall under the classification criteria of this hazard class.

Carcinogenicity:

Does not fall under the classification criteria of this hazard class.

Reproductive toxicity:

Does not fall under the classification criteria of this hazard class.

STOT-single exposure:

Based on available data, the classification criteria are not met.

STOT-repeated exposure:

Does not fall under the classification criteria of this hazard class.

Aspiration hazard:

Does not fall under the classification criteria of this hazard class.

11.2. Information on other hazards

Endocrine disrupting properties:

According to the available data, the product does not contain any substances included in the main European lists of potential or suspected endocrine disruptors with effects on human health to be assessed.

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SECTION 12: Ecological information

* 12.1. Toxicity

propane	CAS No.: 74-98-6 EC No.: 200-827-9
LC ₅₀ :	9,640 mg/L 4 d (fish, Pimephales promelas)
LC ₅₀ :	0.41 mg/L 4 d (fish, Oncorhynchus mykiss)
LC ₅₀ :	49.9 mg/L 4 d (fish)
EC ₅₀ :	>100 mg/L (Algae/water plant, Bacteria)
EC ₅₀ :	0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)
EC ₅₀ :	69.43 mg/L 2 d (crustaceans, Daphnia) Calculation with the ECOSAR programme v1.00.
NOEC:	0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
ErC ₅₀ :	19.37 mg/L 4 d (Algae/water plant, Algae) Calculation with the ECOSAR programme v1.00.
LOEC:	1,000 mg/L (Algae/water plant, Algae)
LOEC:	1,000 mg/L (Algae/water plant, Alge)
IC ₅₀ :	11.3 mg/L 3 d (Algae/water plant)
LOEC:	1,000 mg/L
ethanol	CAS No.: 64-17-5 EC No.: 200-578-6
LC ₅₀ :	>1,000 mg/L 4 d (fish)
LC ₅₀ :	=11,200 mg/L 1 d
EC ₅₀ :	>1,000 mg/L 2 d (crustaceans, Daphnia magna)
EC ₅₀ :	=275 mg/L 3 d
NOEC:	=9.6 mg/L (crustaceans, Ceriodaphnia dubia)
ErC ₅₀ :	>100 mg/L
LC ₅₀ :	8,140 mg/L 2 d (fish, Leuciscus idus (golden orfe))
EC ₅₀ :	6,500 mg/L (Algae/water plant, Pseudomonas putida)
NOEC:	250 mg/L (fish, Danio rerio)
ErC ₅₀ :	275 mg/L 3 d (Algae/water plant, Chlorella vulgaris)
ErC ₅₀ :	=275 mg/L 3 d (Chlorella vulgaris)
NOEC:	150 mg/L 4 d (fish, Daphnia magna)
propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7
LC ₅₀ :	>1,000 mg/L 4 d (fish)
LC ₅₀ :	9,640 mg/L 4 d (fish, Pimephales promelas)
LC ₅₀ :	9,714 mg/L 1 d (Daphnia magna)
EC ₅₀ :	>1,000 mg/L 2 d (crustaceans)
EC ₅₀ :	>100 mg/L (Algae/water plant, Bacteria)
EC ₅₀ :	>100 mg/L 2 d (crustaceans, Daphnia magna)
ErC ₅₀ :	>100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
ErC ₅₀ :	>100 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)
LOEC:	1,000 mg/L (Alge)
LOEC:	1,000 mg/L (Algae/water plant, Algae)
LOEC:	1,000 mg/L
(R)-p-mentha-1,8-diene	CAS No.: 5989-27-5 EC No.: 227-813-5
LC ₅₀ :	35 mg/L 4 d (fish, Oncorhynchus mykiss)
EC ₅₀ :	69.6 mg/L 2 d (crustaceans, Daphnia pulex)
LC ₅₀ :	0.702 mg/L 4 d (fish, Pimephales promelas)
EC ₅₀ :	0.577 mg/L 2 d (crustaceans, Daphnia magna)

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didecyldimethylammonium chloride CAS No.: 7173-51-5 EC No.: 230-525-2

LC₅₀: 0.19 mg/L 4 d (fish, Pimephales promelas)

EC₅₀: 0.062 mg/L 2 d (crustaceans, Daphnia)

NOEC: 0.01 mg/L (crustaceans, Daphnia magna)

NOEC: 0.032 mg/L (fish, Danio rerio)

citral CAS No.: 5392-40-5 EC No.: 226-394-6

LC₅₀: 6.78 mg/L 4 d (fish, Leuciscus idus)

EC₅₀: 6.8 mg/L 2 d (crustaceans, Daphnia magna)

EC₅₀: 103.8 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)

EC₅₀: 103.84 mg/L (Algae/water plant, Scenedesmus subspicatus)

Additional ecotoxicological information:

Use in accordance with good working practices and ensure that the product does not enter the environment. Notify the relevant authorities if the product has entered water courses or if the product has contaminated the soil or vegetation.

* 12.2. Persistence and degradability

propane CAS No.: 74-98-6 EC No.: 200-827-9

Biodegradation: Yes, rapidly

butane CAS No.: 106-97-8 EC No.: 203-448-7

Biodegradation: Yes, rapidly

ethanol CAS No.: 64-17-5 EC No.: 200-578-6

Biodegradation: Yes, rapidly

Remark: Readily biodegradable (according to OECD criteria).

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7

Biodegradation: Yes, rapidly

Remark: Readily biodegradable (according to OECD criteria).

(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5

Biodegradation: Yes, rapidly

didecyldimethylammonium chloride CAS No.: 7173-51-5 EC No.: 230-525-2

Biodegradation: Yes, rapidly

citral CAS No.: 5392-40-5 EC No.: 226-394-6

Biodegradation: Yes, rapidly

* 12.3. Bioaccumulative potential

propane CAS No.: 74-98-6 EC No.: 200-827-9

Log K_{OW}: 1.09

butane CAS No.: 106-97-8 EC No.: 203-448-7

Log K_{OW}: 2.8

ethanol CAS No.: 64-17-5 EC No.: 200-578-6

Log K_{OW}: -0.31

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7

Log K_{OW}: 0.05

(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5

Log K_{OW}: 4.83

Bioconcentration factor (BCF): 1,022

didecyldimethylammonium chloride CAS No.: 7173-51-5 EC No.: 230-525-2

Bioconcentration factor (BCF): 81

citral CAS No.: 5392-40-5 EC No.: 226-394-6

Log K_{OW}: 2.76

Bioconcentration factor (BCF): 89.72

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* 12.4. Mobility in soil

No data available

* 12.5. Results of PBT and vPvB assessment

propane	CAS No.: 74-98-6	EC No.: 200-827-9
Results of PBT and vPvB assessment: —		
butane	CAS No.: 106-97-8	EC No.: 203-448-7
Results of PBT and vPvB assessment: —		
ethanol	CAS No.: 64-17-5	EC No.: 200-578-6
Results of PBT and vPvB assessment: —		
Isobutane (with < 0.1 % butadiene (203-450-8))	CAS No.: 75-28-5	EC No.: 200-857-2
Results of PBT and vPvB assessment: —		
propan-2-ol	CAS No.: 67-63-0	EC No.: 200-661-7
Results of PBT and vPvB assessment: —		
(R)-p-mentha-1,8-diene	CAS No.: 5989-27-5	EC No.: 227-813-5
Results of PBT and vPvB assessment: —		
Rectified Hydrocarbons by- products from synthetic process of Turpentine and acid, alcohols fraction		
EC No.: 949-141-8		
Results of PBT and vPvB assessment: —		
Orange, süß, Extrakt	CAS No.: 8028-48-6	EC No.: 232-433-8
Results of PBT and vPvB assessment: —		
didecyldimethylammonium chloride	CAS No.: 7173-51-5	EC No.: 230-525-2
Results of PBT and vPvB assessment: —		
(S)-p-mentha-1,8-diene	CAS No.: 5989-54-8	EC No.: 227-815-6
Results of PBT and vPvB assessment: —		
Cubeb root (Litsea cubeba) fruit oil	CAS No.: 68855-99-2	EC No.: 290-018-7
Results of PBT and vPvB assessment: —		
citral	CAS No.: 5392-40-5	EC No.: 226-394-6
Results of PBT and vPvB assessment: —		

Based on the available information, the product does not contain any PBT or vPvB substances in content percentages $\geq 0.1\%$.

12.6. Endocrine disrupting properties

According to the available data, the product does not contain any substances included in the main European lists of potential or suspected endocrine disruptors with effects on human health to be assessed.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

* 13.1. Waste treatment methods

Reuse if possible. Product residues are to be considered as hazardous waste. The hazardousness of the waste partially containing this product must be evaluated on the basis of the legal provisions in force. Disposal must be entrusted to a company authorised for waste management, taking into account national and, where applicable, local regulations.

The transport of the waste may be subject to ADR.

Disposal of waste arising from the use or distribution of this product must be in accordance with health and safety regulations. See Section 8 for possible need for PPE.

Waste treatment options

Appropriate disposal / Package:

Contaminated packaging material must be sent for recycling or disposal in accordance with the country's waste management regulations.

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SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS
14.3. Transport hazard class(es)			
 2.1	No data available	 2.1	 2.1
14.4. Packing group			
		-	
14.5. Environmental hazards			
No	No data available	No	No
14.6. Special precautions for user			
Special Provisions: 190, 327, 344, 625 Limited quantity (LQ): 1 L Classification code: - Tunnel restriction code: (D)	No data available	Limited quantity (LQ): 1 L EmS-No.: F-D, S-U	Special Provisions: Cargo: Höchstmenge 150 Kg, Packaging details 203; Pass.: Höchstmenge 75 Kg, Packaging details 203; Special provision: A145, A167, A802;

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU legislation

Restrictions on use:

Seveso category Directive 2012/18/EU P3a FLAMMABLE AEROSOLS

Restrictions on the product or substances according to Annex XVII Regulation (EC) 1907/2006

Product point 40

Substances contained point 75

Regulation (EU) 2019/1148 (marketing and use of explosives precursors): not applicable

Substances according to Candidate List (Art. 59 REACH): Based on the available information, the product does not contain SVHC substances in percentages $\geq 0.1\%$.

Substances subject to authorisation (Annex XIV REACH): none

Substances subject to export notification Regulation (EU) 649/2012: none

Substances subject to the Rotterdam Convention: none

Substances subject to the Stockholm Convention: none

Preventive medical check-ups: No precautionary examinations are required when working with this product. This is only on condition that the results of the risk assessment prove that there is only a moderate risk to the safety and health of workers and that the measures provided for by Directive 98/24/EC are sufficient to limit the risk.

Regulation (EC) No. 648/2004 [Detergents regulation]

Ingredients according to Regulation (EC) No. 648/2004

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:

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- P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids

Named dangerous substances:

- Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas

Restrictions on the product or substances according to Annex XVII Regulation (EC) 1907/2006

Product - point 40

Substances contained - point 75

Regulation (EU) No 2019/1148 (marketing and use of explosives precursors)

Regulated explosives precursor The acquisition, transfer, possession or use of the regulated explosives precursor in question by members of the general public is subject to reporting requirements under Article 9. All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

Preventive medical check-ups

No precautionary examinations are required when working with this product. This is only on condition that the results of the risk assessment prove that there is only a moderate risk to the safety and health of workers and that the measures provided for by Directive 98/24/EC are sufficient to limit the risk.

15.1.2. National regulations

No data available

* 15.2. Chemical Safety Assessment

A safety-relevant chemical assessment was carried out on the substances listed below and contained therein.

PROPANE

BUTANE

ISOBUTANE

ETHANOL

(R)-P-MENTHADIEN-1,8

SECTION 16: Other information

* 16.1. Indication of changes

1.1.	Product identifier
2.1.	Classification of the substance or mixture
2.2.	Label elements
3.2.	Mixtures
4.1.	Description of first aid measures
4.3.	Indication of any immediate medical attention and special treatment needed
8.1.	Control parameters
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
9.2.	Other information
10.1.	Reactivity
10.3.	Possibility of hazardous reactions
10.4.	Conditions to avoid
10.5.	Incompatible materials
10.6.	Hazardous decomposition products
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.4.	Mobility in soil
12.5.	Results of PBT and vPvB assessment
13.1.	Waste treatment methods

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14.5.	Environmental hazards
14.6.	Special precautions for user
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.2.	Chemical Safety Assessment
16.1.	Indication of changes
16.2.	Abbreviations and acronyms
16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15

* 16.2. Abbreviations and acronyms

AC	Article Category
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
ASTM	American Society for Testing and Materials
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
IC ₅₀	Inhibition Concentration 50 %
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
IUCLID	International Uniform Chemical Information Database
KG	body weight
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
RTECS	Registry of Toxic Effects of Chemical Substances
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds
ZNS	central nervous system

16.3. Key literature references and sources for data

No data available

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16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
aerosol dispensers and lighters (Aerosol 1)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	On basis of test data.
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation method.

* 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.