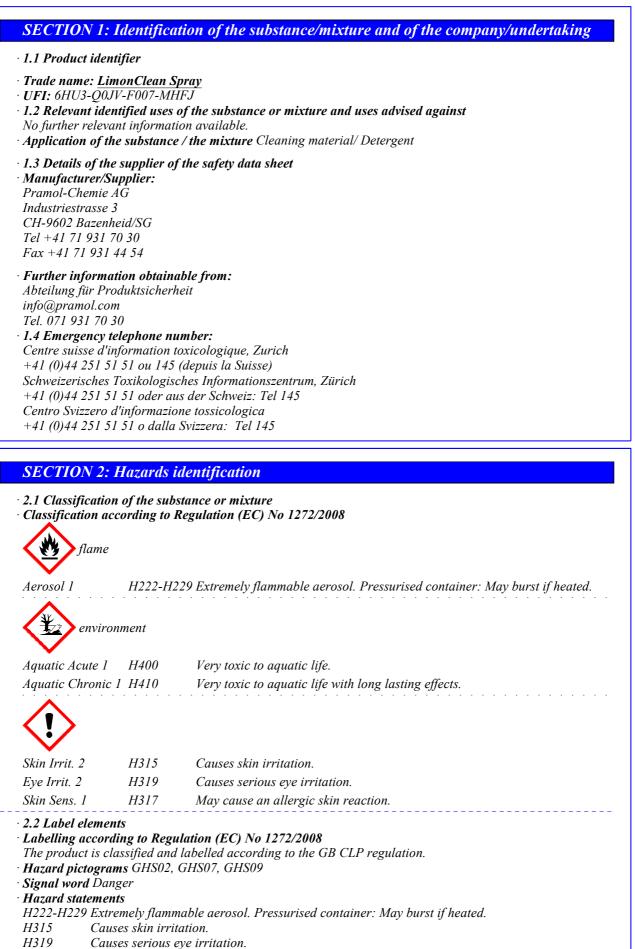
Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.02.2024

Version number 49 (replaces version 48)

Revision: 13.02.2024



(Contd. on page 2)

GB

Page 2/9

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.02.2024

Version number 49 (replaces version 48)

Revision: 13.02.2024

Trade name: LimonClean Spray

	(Contd. of page 1)
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
· Precautio	nary statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<i>P305+P3</i> .	51+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P4	<i>Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.</i>
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additiona	l information:
69.940498	33 % by mass of the contents are flammable
Keep out o	of the reach of children
· Results of	PBT and vPvB assessment
· PBT: Not	applicable.
17	1. 11

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:					
CAS: 5989-27-5 EINECS: 227-813-5 Reg.nr.: 01-2119529223-47	(R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317	50-100%			
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane Tlam. Gas 1A, H220; Press. Gas (Comp.), H280	10-20%			
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane, pure � Flam. Gas 1A, H220; � Acute Tox. 3, H331; Press. Gas (Comp.), H280	10-20%			
CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44	2-(2-butoxyethoxy)ethanol	≥5-<10%			
CAS: 9043-30-5	Alcohol C13-iso, ethoxylated 5 EO Eye Dam. 1, H318 the wording of the listed hazard phrases refer to section 16.	≥2.5-<3%			

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

(Contd. on page 3)

GB

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.02.2024

Version number 49 (replaces version 48)

Revision: 13.02.2024

Trade name: LimonClean Spray

(Contd. of page 2)

SECTION 5: Firefighting measures

• 5.1 Extinguishing media

• Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.

· 6.4 Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling No special precautions are necessary if used correctly.

· Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.

• Storage class: 2 B

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

106-97-8 butane, pure

WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

(Contd. on page 4)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.02.2024

Version number 49 (replaces version 48)

Revision: 13.02.2024

GB

Trade name: LimonClean Spray

117 24 5 7 (7) have a set a set of the set of	(Contd. of page
112-34-5 2-(2-butoxyethoxy)ethanol	1944
WEL Short-term value: 101.2 mg/m ³ , 15 p Long-term value: 67.5 mg/m ³ , 10 pp	
0 0 m	
DNELS	
5989-27-5 (R)-p-mentha-1,8-diene	
Inhalative DNEL long term systemic effect	
	33.3 mg/m3 (workers)
PNECs	
5989-27-5 (R)-p-mentha-1,8-diene	
PNEC aqua 0.0054 mg/l (fresh water)	
PNEC sediment 1.32 mg/kg (fresh water)	
PNEC ground 262 mg/kg (ground)	
Additional information: The lists valid dur	ring the making were used as basis
•	
8.2 Exposure controls	
Appropriate engineering controls No furth	
Individual protection measures, such as p	
General protective and hygienic measures	
Keep away from foodstuffs, beverages and	
Immediately remove all soiled and contami	
Wash hands before breaks and at the end of	of work.
Avoid contact with the skin.	
Avoid contact with the eyes and skin.	
Respiratory protection: Not required.	
Hand protection	
Protective gloves	
Material of gloves Rubber gloves Penetration time of glove material The exact break trough time has to be fou observed.	and out by the manufacturer of the protective gloves and has to
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Page 5/9

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.02.2024

Version number 49 (replaces version 48)

Revision: 13.02.2024

Trade name: LimonClean Spray

	(Contd. of page
Upper:	10.9 Vol %
Flash point:	$1 ^{\circ}C$
Auto-ignition temperature:	240 °C
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	8 hPa
Density and/or relative density	
Density at 20 °C:	$0.755 \ g/cm^3$
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	4 1
Form:	Aerosol
Important information on protection of health an	d
environment, and on safety.	D
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Not determined.
Solvent separation test:	
Organic solvents:	96.7 %
Water:	0.8 %
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard classe	25
Explosives	Void
Flammable gases	Void
Aerosols	Extremely flammable aerosol. Pressurised contained
	May burst if heated.
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
	roiu
Substances and mixtures, which emit flammable	Void
gases in contact with water	Void Void
Oxidising liquids	Void Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

• *Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

• 10.4 Conditions to avoid No further relevant information available.

(Contd. on page 6)

GB

Page 6/9

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.02.2024

Version number 49 (replaces version 48)

Revision: 13.02.2024

(Contd. of page 5)

Trade name: LimonClean Spray

· 10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

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

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

· LD/LC50 values relevant for classification:

5989-27-5 (R)-p-mentha-1,8-diene

Oral LD50 >2,000 mg/kg (Rat)

Dermal LD50 >5,000 mg/kg (rabbit)

106-97-8 butane, pure

Inhalative LC50/4 h 658 mg/l (Rat)

Skin corrosion/irritation Causes skin irritation.

· Serious eye damage/irritation Causes serious eye irritation.

• Respiratory or skin sensitisation May cause an allergic skin reaction.

• 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity:

5989-27-5 (R)-p-mentha-1,8-diene

EC50 (48h) 0.36 mg/l (Daphnia magna)

EC50 (72h) 8 mg/l (Desomdemus subspicatus)

LC50 (96h) 0.72 mg/l (Pimephales promelas)

· 12.2 Persistence and degradability No further relevant information available.

- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

• **Remark:** Toxic for fish

• Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Toxic for aquatic organisms

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Page 7/9

*

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.02.2024

Version number 49 (replaces version 48)

Revision: 13.02.2024

(Contd. of page 6)

GB

Trade name: LimonClean Spray

· Uncleaned packaging:

• *Recommendation: Dispose of packaging according to regulations on the disposal of packagings.*

SECTION 14: Transport informat	1011
14.1 UN number or ID number ADR, IMDG, IATA	UN1950
14.2 UN proper shipping name ADR IMDG IATA	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOU AEROSOLS, MARINE POLLUTANT AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	
Class Label	2.1 5F Gases. 2.1
IMDG	2.1
Class Label	2.1 Gases. 2.1
Laber IATA	2.1
Class Label	2.1 Gases. 2.1
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	Yes
Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user EMS Number:	Not applicable. F-D,S-U
Stowage Code	SW1 Protected from sources of heat.
Segregation Code	SW22 For AEROSOLS with a maximum capacity of litre: Category A. For AEROSOLS with a capacity abo 1 litre: Category B. For WASTE AEROSOLS: Catego C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of litre:
	Segregation as for class 9. Stow "separated from" class except for division 1.4. For AEROSOLS with a capacity above 1 litre:
	Segregation as for the appropriate subdivision of class

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.02.2024

Version number 49 (replaces version 48)

Revision: 13.02.2024

Trade name: LimonClean Spray

	(Contd. of page '
	For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class 2
14.7 Maritime transport in bulk according	to IMO
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
· · · · ·	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	(D)
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\tilde{E}Q)$	Code: E0
	Not permitted as Excepted Quantity
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALL
	HAZARDOUS

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · Poisons Act

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons None of the ingredients is listed.

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category
- E1 Hazardous to the Aquatic Environment
- P3a FLAMMABLE AEROSOLS

• Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

• Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

· Regulation (EC) No 648/2004 on detergents / Labelling for contents

perfumes (LIMONEN), aliphatic hydrocarbons

non-ionic surfactants

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H220 Extremely flammable gas.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

(Contd. on page 9)

≥30%

<5%

GB

Page 9/9

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.02.2024

Version number 49 (replaces version 48)

Trade name: LimonClean Spray

(Contd. o	f page 8)
H304 May be fatal if swallowed and enters airways.	
H315 Causes skin irritation.	
H317 May cause an allergic skin reaction.	
H318 Causes serious eye damage.	
H319 Causes serious eye irritation.	
H331 Toxic if inhaled.	
H400 Very toxic to aquatic life.	
H410 Very toxic to aquatic life with long lasting effects.	
· Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concer	ning the
International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods	
IADG. International Maritime Code for Dangerous Goods IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
DNEL: Derived No-Effect Level (UK REACH)	
PNEC: Predicted No-Effect Concentration (UK REACH)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Flam. Gas 1A: Flammable gases – Category 1A	
Aerosol 1: Aerosols – Category 1	
Press. Gas (Comp.): Gases under pressure – Compressed gas	
Flam. Liq. 3: Flammable liquids – Category 3	
Acute Tox. 3: Acute toxicity – Category 3	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Imit 2: Serious and Amage/eye irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1	
Skin Sens. 1. Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B	
Asp. Tox. 1: Aspiration hazard – Category 1	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
* Data compared to the previous version altered.	
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