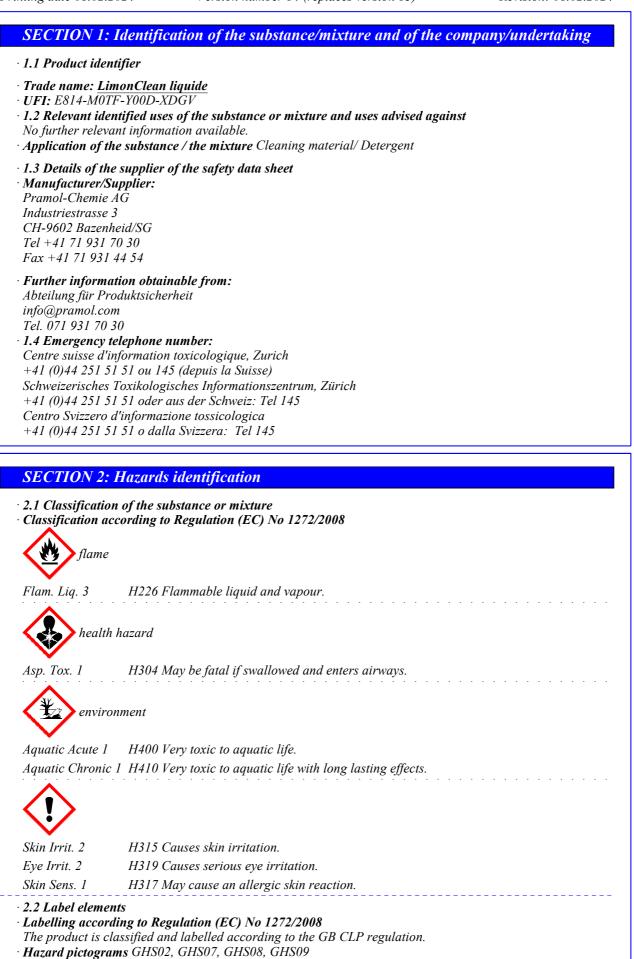
Safety data sheet

according to 1907/2006/EC, Article 31

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• •

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Signal word	(Contd. of page 1)
Hazard-det	ermining components of labelling:
(R)-p-menth	
Hazard stat	
H226 Flam	nable liquid and vapour.
	es skin irritation.
H319 Cause	es serious eye irritation.
	ause an allergic skin reaction.
	be fatal if swallowed and enters airways.
	oxic to aquatic life with long lasting effects.
	iry statements
P280	Wear protective gloves / eye protection / face protection.
P301+P310	
	+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351	+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
	BT and vPvB assessment
PBT: Not a	oplicable.

• *PB1*: Not applicable. • *vPvB*: Not applicable.

SECTION 3: Composition/information on ingredients

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

· Dangero	us components:		
CAS: 598		(R)-p-mentha-1,8-diene	50-100%
EINECS:	227-813-5	♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♦ Skin Irrit. 2, H315; Skin Sens.	
Reg.nr.: (01-2119529223-47	H400; Aquatic Chronic I, H410; 🔷 Skin Irrit. 2, H315; Skin Sens.	
		1B, H317	
CAS: 112	2-34-5	2-(2-butoxyethoxy)ethanol	10%
EINECS:	203-961-6	🕐 Eye Irrit. 2, H319	
Reg.nr.: (01-2119475104-44		

• Additional information: For the wording of the listed hazard phrases refer to section 16.

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.

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SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- 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:
- Do not allow product to reach sewage system or any water course. 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

- 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 Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- **Requirements to be met by storerooms and receptacles:** No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 3
- 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:

112-34-5 2-(2-butoxyethoxy)ethanol

WEL Short-term value: 101.2 mg/m³, 15 ppm

Long-term value: 67.5 mg/m³, 10 ppm

· DNELs

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

Inhalative DNEL long term systemic effects 8.33 mg/m3 (general population)

33.3 mg/m3 (workers)

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· PNECs				
5989-27-5 (R)-p	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 infor	mation: The lists valid during the making were used as basis.			
Individual prote General protecti Keep away from Immediately rem Wash hands befo Avoid contact wi Avoid contact wi Respiratory prot In case of brief e	ineering controls No further data; see section 7. ction measures, such as personal protective equipment we and hygienic measures: foodstuffs, beverages and feed. ove all soiled and contaminated clothing re breaks and at the end of work. th the skin. th the eyes and skin.			
Hand protection EN 374	ctive gloves			
• Penetration time • Eye/face protect	BR ickness of the material: ≥ 0.35 mm of glove material $\geq 8h$			

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemica	al properties	
· General Information		
· Colour:	Colourless	
· Odour:	Characteristic	
• Odour threshold:	Not determined.	
• Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and boilin	g	
range	Undetermined.	
· Flammability	Not applicable.	
• Lower and upper explosion limit		
· Lower:	0.7 Vol %	
· Upper:	10.6 Vol %	
· Flash point:	43 °C	
• Auto-ignition temperature:	240 °C	
· Decomposition temperature:	Not determined.	
· pH	Not determined.	
· Viscosity:		
Kinematic viscosity	Not determined.	
		(9 1

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· 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:	2.3 hPa
· Density and/or relative density	
· Density at 20 °C:	$0.862 \ g/cm^3$
· Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health an	d
environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
• Explosive properties:	Product is not explosive. However, formation
	explosive air/vapour mixtures are possible.
· Solvent separation test:	
· Organic solvents:	96.0 %
· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classe	25
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Flammable liquid and vapour.
· Flammable solids	Void
• Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
• Substances and mixtures, which emit flammable	
gases in contact with water	Void
· Oxidising liquids	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.
- 10.5 Incompatible materials: No further relevant information available.

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

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11.1 Information on hazard cla	asses as defined in Regulation (EC) No 1272/2008
	ble data, the classification criteria are not met.
LD/LC50 values relevant for cl	lassification:
5989-27-5 (R)-p-mentha-1,8-di	iene
Oral LD50 >2,000 mg/kg (.	Rat)
Dermal LD50 >5,000 mg/kg (i	rabbit)
Skin corrosion/irritation	
Causes skin irritation.	
Serious eye damage/irritation	
Causes serious eye irritation.	
Respiratory or skin sensitisatio May cause an allergic skin reac	
	on available data, the classification criteria are not met.
	lable data, the classification criteria are not met.
	available data, the classification criteria are not met.
STOT-single exposure Based o	n available data, the classification criteria are not met.
	d on available data, the classification criteria are not met.
Aspiration hazard	
May be fatal if swallowed and e	
11.2 Information on other haze	
Endocrine disrupting propertie	
	i de la constante de
None of the ingredients is listed	·
None of the ingredients is listed	•
• •	
SECTION 12: Ecological	
None of the ingredients is listed SECTION 12: Ecological 12.1 Toxicity Aquatic toxicity:	
SECTION 12: Ecological 12.1 Toxicity	information
SECTION 12: Ecological 12.1 Toxicity Aquatic toxicity: 5989-27-5 (R)-p-mentha-1,8-da	information
SECTION 12: Ecological 12.1 Toxicity Aquatic toxicity: 5989-27-5 (R)-p-mentha-1,8-du EC50 (48h) 0.36 mg/l (Daphni	iene a magna)
SECTION 12: Ecological 12.1 Toxicity Aquatic toxicity: 5989-27-5 (R)-p-mentha-1,8-du EC50 (48h) 0.36 mg/l (Daphni EC50 (72h) 8 mg/l (Desomdem	iene a magna) nus subspicatus)
SECTION 12: Ecological 12.1 Toxicity Aquatic toxicity: 5989-27-5 (R)-p-mentha-1,8-du EC50 (48h) 0.36 mg/l (Daphni EC50 (72h) 8 mg/l (Desomdem LC50 (96h) 0.72 mg/l (Pimeph	iene a magna) nus subspicatus)

· **vPvB:** Not applicable.

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

• Remark: Very toxic for fish

- Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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^{· 12.6} Endocrine disrupting properties

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· Recommendation

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Can be burned with household garbage after consulting with the waste disposal facility operator and the

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

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Very toxic for aquatic organisms

· 13.1 Waste treatment methods

SECTION 13: Disposal considerations

• 14.7 Maritime transport in bulk according to IMO

instruments

pertinent authorities and adhering to the necessary technical regulations.

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· Uncleaned packaging: · Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. **SECTION 14: Transport information** • 14.1 UN number or ID number · ADR, IMDG, IATA UN1993 · 14.2 UN proper shipping name · ADR 1993 FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8diene), ENVIRONMENTALLY HAZARDOUS · IMDG FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8diene), MARINE POLLUTANT ·IATA FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8-diene) · 14.3 Transport hazard class(es) · ADR, IMDG · Class 3 Flammable liquids. · Label 3 ·IATA 3 Flammable liquids. · Class · Label 3 ·14.4 Packing group · ADR, IMDG, IATA Ш · 14.5 Environmental hazards: Symbol (fish and tree) · Marine pollutant: • Special marking (ADR): Symbol (fish and tree) Warning: Flammable liquids. · 14.6 Special precautions for user · Hazard identification number (Kemler code): 30 F-E, S-E· EMS Number: · Stowage Category A

Not applicable.

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· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
• Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
• Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
$\cdot Excepted$ quantities ($\widetilde{E}Q$)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. ((R)-P-
5	MENTHA-1,8-DIENE), 3, III, ENVIRONMENTALLY
	HAZARDOUS

SECTION 15: Regulatory information

 \cdot 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
- P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

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

· Regulation (EC) No 648/2004 on detergents / Labelling for contents	
perfumes (LIMONEN)	≥30%
non-ionic surfactants	<5%

• 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

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.

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H319 Causes serious eye irritation.	
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 Agreeme	ent Concerning the
International Carriage of Dangerous Goods by Road)	0
IMDG: 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. Liq. 3: Flammable liquids – Category 3	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
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.	
	CD