
SECTION 1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

1.1 Product Identifier

Product name: PURISMIO PROTECTIVE LIQUID

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

Recommended use: liquid for disinfection of surfaces

Uses advised against: No Information available

1.3 Emergency telephone number

Emergency : 112

SECTION 2. HAZARDS IDENTIFICATIONS

2.1 Classification of the substance or mixture

Hazards	CLP Classification - Regulation (EC) No 1272/2008
Physical hazards	Flam. Liq. 2, H225
Health hazards	Eye Irrit 2, H319 Skin Irrit 2, H315

2.2 Label elements



Hazards pictograms:

Signal word: Danger

Hazard statements: Highly flammable liquid and vapour. Causes eye irritation. Causes skin irritation.

Precautionary statements: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Take precautionary measures against static discharge. Wash your hands thoroughly after use. Wear protective gloves/protective clothing/eye protection/face protection IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue to rinse. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower. Store in a well-ventilated place. Keep in a cool place. Keep away from children.

2.3. Other hazards

No information available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Substances

Component	CAS-No	WE-No	Index- No	Weight [%]	CLP Classification - Regulation (EC) No 1272/2008
Ethanol	64-17-5	200-578-6	603-002-0-5	≥73.00	Flam. Liq. 2, H225 Eye Irrit 2, H319
Aqua	7732-18-5	231-791-2	-	ad 100	Not classified
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8	-/ 01- 2119488639- 16-XXXX	5-15	Skin Irrit 2, H315 Eye Dam 1, H318 Aquatic Chronic 3, H412
Hydroxyethylcellulose	-	-	-	0.2-0.9	Not classified
2-phenoxyetanol	122-99-6	204-589-7	603-098-00-9/ 01- 2119488943-21	0.25-0.5	Acute Tox. 4, H302 Eye Irrit. 2, H319
(6E)-3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	233-732-6	-/ 01- 2119969272- 32-0000	0.0375- 0.075	Skin Irrit 2, H315 Eye Irrit 2, H319
2,6-dimethyloct-7-en-2-ol	18479-58-8	242-362-4	-/01- 2119457274- 37-0008)	0.025-0.05	Skin Irrit 2, H315 Eye Irrit 2, H319
Hexyl 2-hydroxybenzoate	6259-76-3	228-408-6	-/01- 2119638275- 36-XXXX	0.025-0.05	Skin Sens. 1, H317 Aquatic Chronic 1, H410
Tetrahydro-4-methyl-2-(2-methylpropyl)- 2Hpyran-4-ol	63500-71-0	405-040-6	-/01- 2119455547- 30-000	0.0125- 0.025	Eye Irrit 2, H319
3-Methyl-5-phenylpentanol	55066-48-3	259-461-3	-/01- 2119969446- 23-XXXX	0.0125- 0.025	Acute. Tox. 4, H302 STOT RE 2 ,H373
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6	268-264-1	-/ 01- 2119982384- 28-XXXX	0.005	Skin Irrit 2, H315 Skin Sens. 1, H317 Eye Irrit 2, H319 Aquatic Chronic 3, H412

Full text of Hazard Statements: see section 16

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to

give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Ingestion: DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

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

Consult a physician. Treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Flammable. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use a solid water stream as it may scatter and spread fire.

5.2 Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products)

Carbon oxides expected to be the primary hazardous combustion product.

5.3. Advices for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.2 Environmental precautions:

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Contain spill, then collect with an electrically protected vacuum cleaner or by wet-brushing and put the material into a convenient waste disposal container. Keep container closed

6.4 Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool, dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use

Follow the instructions for use.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Ethanol

Data for WORKERS

INHALATION Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 950 mg/m ³	-
Acute /short term:	No hazard identified	
Local Effects		
Long-term:	No hazard identified	
Acute /short term:	(DNEL) 1 900 mg/m ³	irritation (respiratory tract)
DERMAL Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 343 mg/kg bw/day	repeated dose toxicity
Acute /short term:	No hazard identified	
Local Effects		
Long-term:	No hazard identified	
Acute /short term:	No hazard identified	

Data for the GENERAL POPULATION

INHALATION Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 114 mg/m ³	carcinogenicity
Acute /short term:	No hazard identified	
Local Effects		
Long-term:	No hazard identified	
Acute /short term:	(DNEL) 950 mg/m ³	irritation (respiratory tract)
DERMAL Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 206 mg/kg bw/day	repeated dose toxicity
Acute /short term:	No hazard identified	
Local Effects		
Long-term:	No hazard identified	
Acute /short term:	No hazard identified	
ORAL Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 87 mg/kg bw/day	repeated dose toxicity
Acute /short term:	No hazard identified	

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Data for WORKERS

INHALATION Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 175 mg/m ³	repeated dose toxicity
Acute /short term:	Hazard unknown (no further information necessary)	
Local Effects		
Long-term:	Hazard unknown (no further information necessary)	

Acute /short term:	Hazard unknown (no further information necessary)	
DERMAL Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 2 750 mg/kg bw/day	repeated dose toxicity
Acute /short term:	No hazard identified	
Local Effects		
Long-term:	(DNEL) 132 µg/cm ²	repeated dose toxicity
Acute /short term:	(Low hazard (no threshold derived))	-
EYE Exposure		
Medium hazard (no threshold derived)		

Data for the GENERAL POPULATION

INHALATION Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 52 mg/m ³	repeated dose toxicity
Acute /short term:	No hazard identified	
Local Effects		
Long-term:	Hazard unknown (no further information necessary)	
Acute /short term:	Hazard unknown (no further information necessary)	
DERMAL Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 1 650 mg/kg bw/day	repeated dose toxicity
Acute /short term:	No hazard identified	
Local Effects		
Long-term:	(DNEL) 79 µg/cm ²	repeated dose toxicity
Acute /short term:	(Low hazard (no threshold derived))	-

ORAL Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 15 mg/kg bw/day	effect on fertility
Acute /short term:	No hazard identified	
EYE Exposure		
Medium hazard (no threshold derived)		

2-phenoxyethanol

Data for WORKERS

INHALATION Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 8.07 mg/m ³	repeated dose toxicity
Acute /short term:	-	-
Local Effects		
Long-term:	(DNEL) 8.07 mg/m ³	repeated dose toxicity
Acute /short term:	-	-
DERMAL Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 20.83 mg/kg bw/day	repeated dose toxicity
Acute /short term:	-	-
Local Effects		
Long-term:	-	-
Acute /short term:	-	-
EYE Exposure		

Data for the GENERAL POPULATION

INHALATION Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 2.41 mg/m ³	repeated dose toxicity

Acute /short term:	-	-
Local Effects		
Long-term:	(DNEL) 2.41 mg/m ³	repeated dose toxicity
Acute /short term:	-	-
DERMAL Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 10.42 mg/kg bw/day	repeated dose toxicity
Acute /short term:	-	-
Local Effects		
Long-term:	-	-
Acute /short term:	-	-
ORAL Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 9.23 mg/kg bw/day	repeated dose toxicity
Acute /short term:	(DNEL) 9.23 mg/kg bw/day	repeated dose toxicity
EYE Exposure		

8.2 Exposure controls

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

Personal protective equipment:

Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly.

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Use chemical safety goggles and/or a full face shield where splashing is possible.

Skin and body protection: Wear impervious, flame retardant, antistatic protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Environmental exposure controls:

Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	colorless
Odor	characteristic
pH	not available
Boiling point	78 °C
Flash point	not available
Evaporation rate	not available
Lower and upper explosive (flammable) limits	not available
Vapor pressure	not available
Vapor density	not available
Relative density	not available
Solubility	not available
Partition coefficient: noctanol/water	not available
Auto-ignition temperature	not available
Viscosity	<0.205 cm ² /s (40 °C)
Explosive properties	no information available
Oxidizing properties	no information available

9.2 Other information

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SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

None known, based on information available.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Vapors may form explosive mixture with air.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials

Strong Oxidizing agents

10.6 Hazardous decomposition products

None under normal use conditions

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Ethanol

Oral

LD50 1 187 - 15 010 mg/kg bw (rat)

LD50 7 800 - 22 500 mL/kg bw (rat)

LD50 8 300 mg/kg bw (mouse)

Inhalation

LC50 (6 h) 82.1 - 92.6 mg/L air (rat)

LC50 (4 h) 115.9 - 133.8 mg/L air (rat)

LC50 (60 min) 60 000 ppm (mouse)

2-phenoxyethanol

Oral

LD50 1 840 - 4 070 mg/kg bw (rat)

Dermal

LD50 14 391 mg/kg bw (rat)

LD50 2 214 mg/kg bw (rabbit)

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Oral

LD50 (szczur) > 2000mg/kg

Dermal

LD50 (szczur) > 2000mg/kg

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ethanol

Acute Fish Toxicity

LC50 / 96 hours Oncorhynchus mykiss: 42 mg/L

Toxicity to Aquatic Plant.

LC50 / 72 hours Artemia sp. 25.5 mg mg/L
Toxicity to Microorganisms
NOEC/ 48 hours Activated sludge < 6.3 g /L

2-phenoxyethanol

Short-term toxicity to fish
LC50 (4 days) 220 - 460 mg/L
LC0 (4 days) 220 mg/L
LC100 (4 days) 460 mg/L
NOEC (4 days) 100 mg/L

Short-term toxicity to aquatic invertebrates

EC50 (48 h) 500 mg/L
EC0 (48 h) 500 mg/L

Toxicity to aquatic algae and cyanobacteria

EC50 (72 h) 443 - 625 mg/L
NOEC (72 h) 70 - 500 mg/L
EC10 (72 h) 159 - 333 mg/L
EC20 (72 h) 500 mg/L
EC90 (72 h) 500 mg/L

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available for assessment

12.6 Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material

SECTION 14. TRANSPORT INFORMATION

14.1 UN Number: 1170

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- 14.2 UN proper shipping name: ETHANOL
- 14.3 Transport hazard class(es): 3
- 14.4 Packing group: II
- 14.5 Environmental hazards: NO
- 14.6 Special precautions for user: No special precautions required
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable, packaged goods

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008. Take note of Dir 94/33/EC on the protection of young people at work. Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Take note of Directive 96/82/EC on the control of major-accident hazards involving dangerous substances. Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values. Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this/these products

SECTION 16. OTHER INFORMATION

Full text of H-Statements and abbreviation referred to under sections 2 and 3:

- H225- Highly flammable liquid and vapour.
- H302- Harmful if swallowed
- H315- Causes skin irritation
- H317- May cause an allergic skin reaction
- H318- Causes serious eye damage
- H319- Causes serious eye irritation
- H373- May cause damage to organs through prolonged or repeated exposure
- H410- Very toxic to aquatic life with long-lasting effects
- H412- Harmful to aquatic life with long-lasting effects

- Eye Irrit.2- Eye irritation, category 2
- Flam. Liq.2- Flammable liquid, category 2
- Skin Irrit.2- Skin irritation, category 2
- Eye Dam 1- Eye damage, category 1
- Aquatic Chronic 1,3- Aquatic chronic toxicity, category 1,3
- Acute Tox 4- Acute toxicity, category 4
- Skin Sens 1- Skin sensation, category 1
- STOT RE 2- Specific target organ toxicity - repeat exposure, category 2

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.