

Safety Data Sheet
according to HPR, Schedule 1

Printing date 03/01/2021

Version number 2

Reviewed on 03/01/2021

1 Identification

- **Product identifier**
- **Trade name:** Aquacare
- **Article number:** 1600617
- **Application of the substance / the mixture** Rinsing spray for professional use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Bien-Air Dental S.A.
 Länggasse 60
 CH-2504 Biel/Bienne
 Switzerland
 Tel.: int. +41 (0)32 344 64 64
 office@bienair.com
- **Information department:** Product safety department
- **Emergency telephone number:**
 Swiss Toxicological information center
 E-Mail: info@toxi.ch
 24-h-Emergency number: From CH: 145
 From abroad: +41 44 251 51 51

2 Hazard identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Aerosols - Category 1

H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.



GHS04 Gas cylinder

Gases Under Pressure - Compressed Gas H280

Contains gas under pressure; may explode if heated.



GHS08 Health hazard

Carcinogenicity - Category 1A

H350

May cause cancer.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS04



GHS08

- **Signal word** Danger

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- **Hazard-determining components of labeling:**

ethanol

- **Hazard statements**

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

May cause cancer.

- **Precautionary statements**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

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

IF exposed or concerned: Get medical advice/attention.

Store locked up.

Protect from sunlight. Store in a well-ventilated place.

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

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 4

Reactivity = 3

- **HMIS-ratings (scale 0 - 4)**



Health = *0

Fire = 4

Reactivity = 3

3 Composition/Information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

115-10-6	dimethyl ether	20-30% w/w *
64-17-5	ethanol	20-30% w/w *
67-63-0	propan-2-ol	1-1.5% w/w *

* Actual concentration ranges are withheld as a trade secret.

4 First-aid measures

- **Description of first aid measures**

- **After skin contact:** Generally the product does not irritate the skin.

- **After eye contact:** Rinse opened eye for several minutes under running water.

- **After swallowing:** If symptoms persist consult doctor.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**
Do not spray on a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Pressurized 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.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Pressurized 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.
- **Storage class:** 2 B
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/ Personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

115-10-6 dimethyl ether

EL TWA: 1000 ppm

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64-17-5 ethanol

EL STEL: 1000 ppm

EV TWA: 1,900 mg/m³, 1,000 ppm**67-63-0 propan-2-ol**

EL STEL: 400 ppm

TWA: 200 ppm

EV STEL: 400 ppm

TWA: 200 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

· **Breathing equipment:** Not necessary if room is well-ventilated.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.2 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

>240min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Aerosol

Color: Colorless

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value at 20 °C:** 4.5

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Not applicable, as aerosol.

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· Flash point:	-41 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	235 °C
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	3 Vol %
Upper:	18.6 Vol %
· Vapor pressure at 20 °C:	5,200 hPa
· Density at 20 °C:	0.84 g/cm ³
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	51.5 %
Water:	48.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Additional toxicological information:**
- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

64-17-5	ethanol	1
67-63-0	propan-2-ol	3

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· **NTP (National Toxicology Program)**

None of the ingredients is listed.


12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**
 - **DOT/TDG, ADR, IMDG, IATA** UN1950
 - **UN proper shipping name**
 - **DOT/TDG** Aerosols, flammable
 - **ADR** 1950 AEROSOLS
 - **IMDG** AEROSOLS
 - **IATA** AEROSOLS, flammable
 - **Transport hazard class(es)**
 - **DOT/TDG (Transport dangerous goods):**
- 
- **Class** 2.1
 - **Label** 2.1

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· ADR

· **Class** 2.5F Gases
 · **Label** 2.1

· IMDG, IATA

· **Class** 2.1
 · **Label** 2.1

· **Packing group**
 · **DOT/TDG, ADR, IMDG, IATA** Void

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Warning: Gases
 · **Hazard identification number (Kemler code):** -
 · **EMS Number:** F-D,S-U
 · **Stowage Code** SW1 Protected from sources of heat.
 SW22 For AEROSOLS with a maximum capacity of 1 litre:
 Category A. For AEROSOLS with a capacity above 1 litre:
 Category B. For WASTE AEROSOLS: Category C, Clear of
 living quarters.
 · **Segregation Code** SG69 For AEROSOLS with a maximum capacity of 1 litre:
 Segregation as for class 9. Stow "separated from" class 1
 except for division 1.4.
 For AEROSOLS with a capacity above 1 litre:
 Segregation as for the appropriate subdivision of class 2.
 For WASTE AEROSOLS:
 Segregation as for the appropriate subdivision of class 2.

· **Transport in bulk according to Annex II of
 MARPOL73/78 and the IBC Code** Not applicable.

· Transport/Additional information:

· **ADR**
 · **Excepted quantities (EQ)** Code: E0
 Not permitted as Excepted Quantity

· **IMDG**
 · **Limited quantities (LQ)** 1L
 · **Excepted quantities (EQ)** Code: E0
 Not permitted as Excepted Quantity

· **UN "Model Regulation":** UN 1950 AEROSOLS, 2.1

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
 No further relevant information available.

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· **Sara**· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

67-63-0 | propan-2-ol

· **TSCA (Toxic Substances Control Act):**

7732-18-5	water, distilled, conductivity or of similar purity	ACTIVE
115-10-6	dimethyl ether	ACTIVE
64-17-5	ethanol	ACTIVE
67-63-0	propan-2-ol	ACTIVE
124-38-9	carbon dioxide	ACTIVE
78-93-3	butanone	ACTIVE
89-78-1	menthol	ACTIVE
89-80-5	p-Menthan-one	ACTIVE
8006-90-4	Oils, peppermint	ACTIVE
470-82-6	eucalyptol	ACTIVE
4180-23-8	trans-Anethole	ACTIVE
14073-97-3	l-Menthone	ACTIVE

· **Canadian substance listings:**· **Canadian Domestic Substances List (DSL)**

7732-18-5	water, distilled, conductivity or of similar purity
115-10-6	dimethyl ether
64-17-5	ethanol
67-63-0	propan-2-ol
124-38-9	carbon dioxide
78-93-3	butanone
89-78-1	menthol
89-80-5	p-Menthan-one
8006-90-4	Oils, peppermint
470-82-6	eucalyptol
4180-23-8	trans-Anethole
14073-97-3	l-Menthone

· **Canadian Ingredient Disclosure list (limit 0.1%)**

64-17-5 | ethanol

· **Canadian Ingredient Disclosure list (limit 1%)**

67-63-0 | propan-2-ol

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**

GHS02 GHS04 GHS08

· **Signal word** Danger· **Hazard-determining components of labeling:**

ethanol

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- **Hazard statements**

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
May cause cancer.

- **Precautionary statements**

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Wear protective gloves/protective clothing/eye protection/face protection.
IF exposed or concerned: Get medical advice/attention.
Store locked up.
Protect from sunlight. Store in a well-ventilated place.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

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.

- **Department issuing SDS:** *Product safety department*
- **Contact:**
- **Date of the latest revision of the safety data sheet** *03/01/2021 / 1*
- **Abbreviations and acronyms:**
 - IMDG: International Maritime Code for Dangerous Goods*
 - DOT: US Department of Transportation*
 - IATA: International Air Transport Association*
 - 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)*
 - NFPA: National Fire Protection Association (USA)*
 - HMIS: Hazardous Materials Identification System (USA)*
 - PBT: Persistent, Bioaccumulative and Toxic*
 - vPvB: very Persistent and very Bioaccumulative*

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