

# Safety Data Sheet

according to 29 CFR 1910.1200(g)



## Aquacare (item number 1600617)

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### 1. Identification

#### Product identifier

Aquacare (item number 1600617)

#### Recommended use of the chemical and restrictions on use

##### Use of the substance/mixture

Rinse spray for professional use

#### Details of the supplier of the safety data sheet

Company name:	Bien-Air Medical Technologies	
Street:	Länggasse 60	
Place:	CH-2500 Bienne 6	
Telephone:	+41(0) 32 344 64 64	Telefax: +41(0) 32 344 64 91
Internet:	<a href="http://www.bienair.com/">http://www.bienair.com/</a>	
Responsible Department:	E-Mail: <a href="mailto:sdb@aerosol-service.com">sdb@aerosol-service.com</a>	

Beratungsstelle für Vergiftungserscheinungen:  
Schweizerisches Toxikologisches Informationszentrum  
Centro Svizzero d'Informazione Tossicologica  
Centre Suisse d'Information Toxicologique  
Swiss Toxicological Information Centre  
E-Mail: [info@toxi.ch](mailto:info@toxi.ch)

#### Emergency phone number:

Tel.-CH: 145 (24 h)  
Tel.: +41 44 251 51 51

### 2. Hazard(s) identification

#### Classification of the chemical

##### 29 CFR Part 1910.1200

Flammable aerosols: Flam. Aerosol 1  
Gases under pressure: Compressed gas  
Serious eye damage/eye irritation: Eye Irrit. 2A

#### Label elements

##### 29 CFR Part 1910.1200

Signal word: Danger

Pictograms:



#### Hazard statements

Extremely flammable aerosol  
Contains gas under pressure; may explode if heated  
Causes serious eye irritation

#### Precautionary statements

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.

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Read label before use.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.  
Wash hands thoroughly after handling.  
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 rinsing.  
If eye irritation persists: Get medical advice/attention.  
Store in a well-ventilated place.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### Hazards not otherwise classified

No information available.

## 3. Composition/information on ingredients

### Mixtures

#### **Hazardous components**

CAS No	Components	Quantity
115-10-6	dimethyl ether	29.5 %
64-17-5	ethanol, ethyl alcohol	20.67 %
124-38-9	Carbon dioxide	0.5 %

#### **Further Information**

No information available.

## 4. First-aid measures

### Description of first aid measures

#### **After inhalation**

Provide fresh air.

#### **After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

#### **After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

#### **After ingestion**

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water.

### Most important symptoms and effects, both acute and delayed

No information available.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

#### **Suitable extinguishing media**

Water spray jet, Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

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#### **Unsuitable extinguishing media**

No information available.

#### **Specific hazards arising from the chemical**

Flammable. Vapors may form explosive mixtures with air.

#### **Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Use water spray/stream to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### 6. Accidental release measures

#### **Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Provide adequate ventilation.

#### **Environmental precautions**

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

#### **Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### **Reference to other sections**

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

### 7. Handling and storage

#### **Precautions for safe handling**

##### **Advice on safe handling**

Do not pierce or burn, even after use.

##### **Advice on protection against fire and explosion**

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapors may form explosive mixtures with air.

#### **Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

##### **Hints on joint storage**

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

##### **Further information on storage conditions**

Protect against direct sunlight.

### 8. Exposure controls/personal protection

#### **Control parameters**

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### Exposure limits

CAS No.	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
124-38-9	Carbon dioxide	5000	9000		TWA (8 h)	REL
		5000	9000		TWA (8 h)	REL
		5000			TWA (8 h)	ACGIH-2019
		30,000	54,000		STEL (15 min)	REL
		30000			STEL (15 min)	ACGIH-2019
64-17-5	Ethanol	-	-		TWA (8 h)	ACGIH-2019
		1000			STEL (15 min)	ACGIH-2019
64-17-5	Ethyl alcohol (Ethanol)	1000	1900		TWA (8 h)	REL
64-17-5	Ethyl alcohol	1000	1900		TWA (8 h)	REL

### Exposure controls



#### Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink or smoke.

#### Eye/face protection

Wear eye protection/face protection.

#### Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state: Liquid  
Color: colorless  
Odor: characteristic

#### Test method

pH-Value: not determined

#### Changes in the physical state

Melting point/freezing point: not determined

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Initial boiling point and boiling range: not determined  
Flash point: - 42 °C (dimethyl ether)

### Flammability

Solid: not applicable  
Gas: not applicable

### Explosive properties

Pressurised container: May burst if heated.  
Vapors may form explosive mixtures with air.

Lower explosion limits: 3.3 vol. %  
Upper explosion limits: 26.2 vol. %  
Ignition temperature: not determined

### Auto-ignition temperature

Solid: not applicable  
Gas: not applicable

Decomposition temperature: not determined

### Oxidizing properties

Not oxidising.

Vapor pressure: not determined

Density: 0.956 g/cm<sup>3</sup>

Water solubility: easily soluble

### Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Vapor density: not determined

Evaporation rate: not determined

### Other information

Solid content: not determined

Odor threshold: not determined

## 10. Stability and reactivity

### Reactivity

Flammable.

### Chemical stability

Stability: Stable

The product is stable under storage at normal ambient temperatures.

### Possibility of hazardous reactions

Hazardous reactions: May occur

Pressurised container: May burst if heated.

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Vapors may form explosive mixtures with air.

### Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.  
Protect against direct sunlight.

### Incompatible materials

Oxidizing agent. Pyrophoric or self-heating substances.

### Hazardous decomposition products

No known hazardous decomposition products.

### Further information

No information available.

## 11. Toxicological information

### Information on toxicological effects

#### **Route(s) of Entry**

oral, inhalative, Skin contact, Eye contact

#### **Acute toxicity**

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

CAS No	Components				
	Exposure route	Dose		Species	Source
64-17-5	ethanol, ethyl alcohol				
	oral	LD50	10470 mg/kg	Rat	Safety Data Sheet
	dermal	LD50	15800 mg/kg	Rabbit	Safety Data Sheet
	inhalation (4 h) vapour	LC50	30000 mg/l	Rat, Mouse	Safety Data Sheet

#### **Irritation and corrosivity**

Causes serious eye irritation

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### **Sensitizing effects**

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

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

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

#### **Specific target organ toxicity (STOT) - single exposure**

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

#### **Specific target organ toxicity (STOT) - repeated exposure**

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

Carcinogenicity (NTP): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Ethanol in alcoholic beverages (CAS 64-17-5) is listed in group 1.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

#### **Aspiration hazard**

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

## 12. Ecological information

### Ecotoxicity

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The product is not: Ecotoxic.

#### **Persistence and degradability**

The product has not been tested.

#### **Bioaccumulative potential**

The product has not been tested.

#### **Mobility in soil**

The product has not been tested.

#### **Other adverse effects**

No information available.

#### **Further information**

Avoid release to the environment. Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

### 13. Disposal considerations

#### **Waste treatment methods**

##### **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. Do not allow to enter into soil/subsoil.

##### **Contaminated packaging**

Completely emptied packages can be recycled. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### 14. Transport information

#### **US DOT 49 CFR 172.101**

<b><u>UN/ID number:</u></b>	UN 1950
<b><u>Proper shipping name:</u></b>	AEROSOLS
<b><u>Transport hazard class(es):</u></b>	2.1
Hazard label:	2.1

#### **Marine transport (IMDG)**

<b><u>UN number:</u></b>	UN 1950
<b><u>UN proper shipping name:</u></b>	AEROSOLS
<b><u>Transport hazard class(es):</u></b>	2.1
<b><u>Packing group:</u></b>	-
Hazard label:	2.1



Limited quantity:	1000 mL
Excepted quantity:	E0
EmS:	F-D, S-U

#### **Air transport (ICAO-TI/IATA-DGR)**

<b><u>UN number:</u></b>	UN 1950
<b><u>UN proper shipping name:</u></b>	AEROSOLS, FLAMMABLE

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**Transport hazard class(es):** 2.1

**Packing group:** -

Hazard label: 2.1



Limited quantity Passenger: 30 kg G

Passenger LQ: Y203

Excepted quantity: E0

IATA-packing instructions - Passenger: 203

IATA-max. quantity - Passenger: 75 kg

IATA-packing instructions - Cargo: 203

IATA-max. quantity - Cargo: 150 kg

#### **Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

#### **Special precautions for user**

Warning: Flammable gases.

#### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

### 15. Regulatory information

#### **U.S. Regulations**

##### **National Inventory TSCA**

Carbon dioxide: Yes.

ethanol, ethyl alcohol: Yes.

dimethyl ether: Yes.

##### **National regulatory information**

SARA Section 311/312 Hazards:

Methyl ether (115-10-6): Fire hazard, Sudden release of pressure

ethanol, ethyl alcohol (64-17-5): Fire hazard, Immediate (acute) health hazard

Carbon dioxide (124-38-9): Sudden release of pressure

Clean Air Act Section 112(r):

Methyl ether (115-10-6): Threshold quantities = 10,000 lbs.

#### **State Regulations**

##### **Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

### 16. Other information

#### **Hazardous Materials Information Label (HMIS)**

Health: 1

Flammability: 4

Physical Hazard: 0



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### NFPA Hazard Ratings

Health:	1
Flammability:	4
Reactivity:	0
Unique Hazard:	
Revision date:	28.02.2020
Revision No:	1,0



### Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists  
CFR: Code of Federal Regulations  
DOT: Department of Transportation  
ICAO: International Civil Aviation Organization  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IARC: International Agency for Research on Cancer  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
CAS: Chemical Abstracts Service  
NFPA: National Fire Protection Association  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: permissible exposure limit  
REL: recommended exposure limit  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short-term exposure limit  
TSCA: Toxic Substances Control Act  
TWA: time-weighted average  
TI: Technical Instructions  
DGR: Dangerous Goods Regulations  
UN: United Nations  
ATE: Acute toxicity estimate  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds

### Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not

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necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*