

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

Printing date 02.01.2017

Version number 1

Revision: 29.11.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier

- Trade name: **AQUAVELOX**

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

No further relevant information available.

- Application of the substance / the mixture Coating

- Uses advised against

The mixture is not recommended for industrial, professional and consumer applications not specified as relevant identified uses

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

MA-FRA S.p.A.

Via Aquileia, 44/46

20021 Baranzate (MI) ITALIA

mafra@mafra.it

Tel. +39 023569981

- Informing department:

E-mail: lab@mafra.it

info@mafra.it

- 1.4 Emergency telephone number: Contact the local hospital or the poison control center closest to you

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

- Hazard pictograms



GHS02

GHS07

- Signal word **Danger**

- Hazard-determining components of labelling:

propan-2-ol

- Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

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*H336 May cause drowsiness or dizziness.***- Precautionary statements***P102 Keep out of reach of children.**P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**P261 Avoid breathing mist/vapours/spray.**P233 Keep container tightly closed.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P304+P312 IF INHALED: Call a doctor if you feel unwell.**P337+P313 If eye irritation persists: Get medical advice/attention.***- Labelling of packages where the contents do not exceed 125 ml****- Hazard pictograms**

GHS02 GHS07

- Signal word *Danger***- Hazard-determining components of labelling:***propan-2-ol***- Hazard statements***H336 May cause drowsiness or dizziness.***- Precautionary statements***P102 Keep out of reach of children.**P261 Avoid breathing mist/vapours/spray.**P233 Keep container tightly closed.**P304+P312 IF INHALED: Call a doctor if you feel unwell.***- 2.3 Other hazards****- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures**- Description:** Mixture of substances**- Dangerous components:**

CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	<i>propan-2-ol</i> ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	70-100%
CAS: 78-83-1 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23	<i>butanol</i> ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335-H336	<2%

- 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; consult doctor in case of symptoms.**- After skin contact** The product is not skin irritating.**- After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.**- After swallowing** In case of persistent symptoms consult doctor.**- 4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

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.
Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Can be released in case of fire
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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 water bodies.
Prevent material from reaching sewage system, holes and cellars.
Inform respective authorities in case product reaches water or sewage system.
Do not allow to enter drainage system, 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 information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store in cool location.
Store only in the original container.
- **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 containers.

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- **Storage class**
- **Class according to regulation on inflammable liquids: A 1**
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

- 8.1 Control parameters

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

67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m³, 500 ppm
Long-term value: 999 mg/m³, 400 ppm

78-83-1 butanol

WEL Short-term value: 231 mg/m³, 75 ppm
Long-term value: 154 mg/m³, 50 ppm

- **Additional information:** The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls

- Personal protective equipment

- General protective and hygienic measures

Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

- **Breathing equipment:** Not required.

- 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
Neoprene gloves

- Penetration time of glove material

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 safety glasses.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form:	Fluid
Colour:	Colourless
Odour:	Alcohol-like
Odour threshold:	Not determined.

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- pH-value:	Not determined.
- Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	82 °C
- Flash point:	13 °C
- Inflammability (solid, gaseous)	Not applicable.
- Ignition temperature:	425 °C
- Decomposition temperature:	Not determined.
- Self-inflammability:	Product is not selfigniting.
- Danger of explosion:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- Critical values for explosion:	
Lower:	2.0 Vol %
Upper:	12.0 Vol %
- Vapour pressure at 20 °C:	43 hPa
- Density at 20 °C	0.8 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix
- Partition coefficient (n-octanol/water):	Not determined.
- Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
- Solvent content:	
Organic solvents:	87.5 %
Water:	9.0 %
- 9.2 Other information	No further relevant information available.
- Additional information	
VOC / COV (%)	87.50 %

SECTION 10: Stability and reactivity

- 10.1 Reactivity Stable under normal conditions
- 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

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification:

67-63-0 propan-2-ol

Oral	LD50	5840 mg/Kg (rat)
Dermal	LD50	13400 mg/Kg (rab)
	LC50/4 h	30 mg/L (rat)

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78-83-1 butanol

Oral	LD50	2460 mg/Kg (rat)
Dermal	LD50	4200 mg/Kg (rbt)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Can be deposited with household garbage with prior chemical-physical or biological treatment following consultations with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **UN-Number**
- **ADR, IMDG, IATA** UN1219

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- 14.2 UN proper shipping name**- ADR, IMDG, IATA**

ISOPROPANOL (ISOPROPYL ALCOHOL)

- 14.3 Transport hazard class(es)**- ADR, IMDG, IATA****- Class**

3 Flammable liquids.

- Label

3

- Packing group**- ADR, IMDG, IATA**

II

- 14.5 Environmental hazards:

Not applicable.

- 14.6 Special precautions for user

Warning: Flammable liquids.

- Kemler Number:

33

- EMS Number:

F-E,S-D

- Stowage Category

B

- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

- Transport/Additional information:**- ADR****- Limited quantities (LQ)**

1L

- Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

- Transport category

2

- Tunnel restriction code

D/E

- IMDG**- Limited quantities (LQ)**

1L

- Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

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SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**- Directive 2012/18/EU****- Named dangerous substances - ANNEX I** None of the ingredients is listed.**- Seveso category P5c** FLAMMABLE LIQUIDS**- Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t**- Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t**- REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**- National regulations****- Classification according to VbF:** A 1**- Technical instructions (air):**

Class	Share in %
Wasser	9.0
NK	87.5

- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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

SECTION 16: Other information

- Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

- Department issuing data specification sheet: *Ma-Fra Laboratories*

- Contact: *lab@mafra.it*

- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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)

VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- * Data compared to the previous version altered.