



## 5821 AQUAMETRIC Working Medium

### 1. Identification of the substance/preparation and of the company or firm

#### 1.1 Identification of the substance or preparation

Name:

AQUAMETRIC Working Medium

#### Synonym:

**REACH Registration Number:** A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

#### 1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

#### 1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

#### 1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

### 2. Identification of dangers

Classification of the substance or the mixture.

#### Classification Regulation (CE) n° 1272/2008.

Acute Tox. 2

Acute Tox. 1

Acute Tox. 2

Skin Irrit. 2

Carc. 2

STOT RE 2

## Hazard Pictograms



### Signal word

Danger

### Hazard statements

H330 Fatal if inhaled.

H310 Fatal in contact with skin.

H300 Fatal if swallowed.

H315 Causes skin irritation.

H351 Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

### Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash...thoroughly after handling.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

### Classification (67/548/CEE or 1999/45/CE).

**T+** Very toxic

R48/20/22

R40

R38

R26/27/28

For the full text of the R-phrases mentioned in this section, see section 16.

### 3. Component Composition/Information

Name: AQUAMETRIC Working Medium

#### Composition:

##### 0001: 2-Chloroethanol

Formula: ClCH<sub>2</sub>CH<sub>2</sub>OH M.= 80,51 CAS [107-07-3]

EC number (EINECS): 203-459-7

EC index number: 603-028-00-7

**Content:** >= 30 %

## Classification Regulation (CE) nº 1272/2008.

Acute Tox. 2  
Acute Tox. 1  
Acute Tox. 2

### Hazard Pictograms



### Signal word

Danger

### Hazard statements

H330 Fatal if inhaled.  
H310 Fatal in contact with skin.  
H300 Fatal if swallowed.

### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P262 Do not get in eyes, on skin, or on clothing.  
P264 Wash...thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P284 Wear respiratory protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P320 Specific treatment is urgent (see on this label).  
P321 Specific treatment (see on this label).  
P322 Specific measures (see on this label).  
P330 Rinse mouth.  
P361 Remove/Take off immediately all contaminated clothing.  
P363 Wash contaminated clothing before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

### Classification (67/548/CEE or 1999/45/CE).

**T+** Very toxic

**R26/27/28** Very toxic by inhalation,  
in contact with skin and if swallowed.

## 0002: Trichloromethane stabilized with ethanol

Formula: CHCl<sub>3</sub> M.= 119,38 CAS [67-66-3]

EC number (EINECS): 200-663-8

EC index number: 602-006-00-4

**Content:** >= 40 %

### Classification Regulation (CE) n° 1272/2008.

Acute Tox. 4

Skin Irrit. 2

Carc. 2

### Hazard Pictograms



### Signal word

Warning

### Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H351 Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

### Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P405 Store locked up.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

**Classification (67/548/CEE or 1999/45/CE).**

**Xn** Harmful

**R48/20/22** Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

**R40** Limited evidence of a carcinogenic effect.

**R38** Irritating to skin.

**R22** Harmful if swallowed.

**4. First aid**

**4.1 General indications:**

Never provide drink or induce vomiting in the event of loss of consciousness.

**4.2 Inhaling:**

Take the person out into the fresh air. In the event of suffocation, proceed to provide artificial respiration. Loosen clothing to release respiratory channels.

**4.3 Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing. Seek immediate medical assistance.

**4.4 Eyes:**

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek medical assistance.

**4.5 Swallowing:**

Drink large amounts of water. Induce vomiting. Seek immediate medical assistance.

**5. Fire-fighting means**

**5.1 Suitable fire-extinguishing means:**

Water. Carbon dioxide (CO<sub>2</sub>).

**5.2 Fire-fighting means which must NOT be used:**

No specific data.

**5.3 Special risks:**

Combustible. Keep away from sources of ignition.

**5.4 Protective equipment:**

Suitable clothing and footwear. Self-contained breathing equipment.

**6. Measures to be taken in the event of accidental spillage**

**6.1 Individual precautions:**

Do not inhale the fumes. Avoid contact with the skin, eyes or clothing.

**6.2 Precautions for care of the environment:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

### **6.3 Methods for collection/cleaning:**

Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

## **7. Handling and storage**

### **7.1 Handling:**

Handle in a closed system. Avoid the formation of electrostatic charges.

### **7.2 Storage:**

Well sealed containers. In well ventilated premises. Keep away from flammable substances, sources of ignition and heat. Dry atmosphere.

## **8. Staff exposure/protection controls**

### **8.1 Technical protective measures:**

Ensure good ventilation and renewal of the air in the premises.

### **8.2 Exposure limit control:**

: Data not available.

### **8.3 Respiratory protection:**

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter A.

### **8.4 Hand protection:**

Use suitable gloves neopren

### **8.5 Eye protection:**

Use suitable goggles.

### **8.6 Individual hygiene measures:**

Remove contaminated clothing. Wash hands before breaks and when the job is done. Use complete protective equipment.

### **8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

## **9. Physical and chemical properties**

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Characteristic.

pH:

N/A

Melting point/freezing point: N/A

Initial boiling point and boiling range: 60 °C

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A  
Vapour density: N/A  
Relative density: (20/4) 1,356  
Solubility:  
N/A  
Partition coefficient: n-octanol/water:  
N/A  
Auto-ignition temperature:  
N/A  
Decomposition temperature: N/A  
Viscosity: N/A

## **10. Stability and reactivity**

### **10.1 Conditions which should be avoided:**

Humidity.

### **10.2 Matter which should be avoided:**

Alkaline metals. Alkali-earth metals. Strong oxidant agents. Bases.

### **10.3 Hazardous decomposition products:**

Hydrogen chloride.

### **10.4 Complementary information:**

No specific data.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 76 mg/kg (refers to the component with the highest toxicity)

LD50 skn rbt : 68 mg/kg

LC50 inh rat : 0,11 mg/l 4h

### **11.2 Dangerous effects for health:**

Toxic if swallowed, inhaled or absorbed through the skin. If inhaled: Harmful to the health. Risk of cutaneous absorption. Through contact with the eyes: irritations burns Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **12. Environmental information**

## **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Algae (ClCH<sub>2</sub>CH<sub>2</sub>OH) 2,9 mg/l

Classification: Extr. toxic

Bacteria (ClCH<sub>2</sub>CH<sub>2</sub>OH) 9600 mg/l/17h

Classification: Toxic

Crustaceans (Daphnia magna) (ClCH<sub>2</sub>CH<sub>2</sub>OH) 350 mg/l/48h

Classification: Extr. toxic

Fish (P. promelas) (ClCH<sub>2</sub>CH<sub>2</sub>OH) 67 mg/l/96h

Classification: Extr. toxic

Bacteria (Ps. putida) (CHCl<sub>3</sub>) EC0 125 mg/l

Classification: Highly toxic

Algae (M. aeruginosa) (CHCl<sub>3</sub>) EC0 185 mg/l

Classification: Highly toxic

Fish (CHCl<sub>3</sub>) 162 mg/l

Classification: Highly toxic

12.1.2. - Receptor medium:

Risk for the water environment

High

Risk for the land environment High

12.1.3. - Observations:

Major ecotoxic effect in water environments.

## **12.2 Persistence and Degradability :**

12.2.1 - Test:

BOD<sub>5</sub> = 547 mg O<sub>2</sub>/l

12.2.2. - Biotic degradation classification:

BOD<sub>5</sub>/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Low biodegradability product.

## **12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

## **12.4 Mobility in soil :**

Data not available.

## **12.5 Assessment PBT and MPMB :**

Data not available.

## **12.6 Other possible effects on the environment:**

Do not allow it to enter soils or water channels.

DATA BASED on the components of the preparation.

## **13. Considerations regarding elimination**

### **13.1 Substance or preparation:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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### **13.2 Contaminated containers:**

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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## **14. Information concerning transport**

Overland (ADR):

Technical name: TOXIC LIQUID, ORGANIC, N.O.S.

UN 2810 Class: 6.1 CONTAM. MAR Packaging group: II (D/E)

By sea (IMDG):

Technical name: TOXIC LIQUID, ORGANIC, N.O.S.

UN 2810 Class: 6.1 CONTAM. MAR Packaging group: II

By air (ICAI-IATA):

Technical name: Toxic liquid, organic, n.o.s.

UN 2810 Class: 6.1 CONTAM. MAR Packaging group: II

Packaging instructions: CAO 662 PAX 654

## **15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## **16. Other information**

### Other precautionary statements

- P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P281 Use personal protective equipment as required.  
P284 Wear respiratory protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
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P314 Get medical advice/attention if you feel unwell.  
P320 Specific treatment is urgent (see on this label).  
P321 Specific treatment (see on this label).  
P322 Specific measures (see on this label).  
P330 Rinse mouth.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P361 Remove/Take off immediately all contaminated clothing.  
P362 Take off contaminated clothing and wash before reuse.  
P363 Wash contaminated clothing before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

### Labelling (65/548/CEE or 1999/45/CE)

- R-phrase(s):      **R48/20/22** Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.  
                         **R40** Limited evidence of a carcinogenic effect.  
                         **R38** Irritating to skin.  
                         **R26/27/28** Very toxic by inhalation, in contact with skin and if swallowed.
- S-phrase(s):      **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
                         **S36/37** Wear suitable protective clothing and gloves.  
                         **S28a** After contact with skin, wash immediately with plenty of water.  
                         **S7/9** Keep container tightly closed and in a well-ventilated place.

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.

In respect of the previous review, changes have been made to the following sections: 2, 3, 15

Date published: 3.11.10

Review number and date: 3 3.11.10

