

Safety Data Sheet  
According to Regulation (EC) 1907/2006



**5458 Karl Fischer Water Standard 10,0 mg/g**

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

**1.1 Identification of the substance or preparation**

Name:

Karl Fischer Water Standard 10,0 mg/g

**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.**

Flam. Liq. 2

Acute Tox. 4

Acute Tox. 4

Eye Irrit. 2

Skin Irrit. 2

## Hazard Pictograms



## Signal word

Danger

## Hazard statements

H225 Highly flammable liquid and vapour.  
H332 Harmful if inhaled.  
H312 Harmful in contact with skin.  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.

## Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.  
P242 Use only non-sparking tools.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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

**F** Highly flammable

R36/38  
R20/21  
R10

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

## 3. Component Composition/Information

Name: Karl Fischer Water Standard 10,0 mg/g

### Composition:

#### 0001: 1-Butanol

Formula: CH3(CH2)3OH M.= 74,12 CAS [71-36-3]  
EC number (EINECS): 200-751-6  
EC index number: 603-004-00-6  
REACH Registration Number: 01-2119484630-38-XXXX

**Content:** >= 20 % <= 30 %

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

Flam. Liq. 3  
Acute Tox. 4  
STOT SE 3  
Skin Irrit. 2  
Eye Dam. 1  
STOT SE 3

### **Hazard Pictograms**



### **Signal word**

Danger

### **Hazard statements**

H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.

### **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
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.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
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.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P312 Call a POISON CENTER or doctor/physician 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.  
P370+P378 In case of fire: Use for extinction.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.

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

**Xn** Harmful

**R10** Flammable.

**R22** Harmful if swallowed.

**R37/38** Irritating to respiratory system and skin.

**R41** Risk of serious damage to eyes.

**R67** Vapours may cause drowsiness and dizziness.

**0002: Xylene, \*mixture of isomers**

Formula: C<sub>8</sub>H<sub>10</sub> M.= 106,17 CAS [1330-20-7]

EC number (EINECS): 215-535-7

EC index number: 601-022-00-9

REACH Registration Number: 01-2119488216-32-XXXX

**Content:** >= 25 % <= 35 %

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

Flam. Liq. 3

Acute Tox. 4

Acute Tox. 4

Skin Irrit. 2

**Hazard Pictograms**



**Signal word**

Warning

**Hazard statements**

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

### Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.  
P242 Use only non-sparking tools.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash...thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P321 Specific treatment (see on this label).  
P322 Specific measures (see on this label).  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P363 Wash contaminated clothing before reuse.  
P370+P378 In case of fire: Use for extinction.  
P403+P235 Store in a well-ventilated place. Keep cool.

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

**Xn** Harmful

**R38** Irritating to skin.

**R20/21** Harmful by inhalation and in contact with skin.

**R10** Flammable.

### 0003: Propylene Carbonate

Formula: C<sub>4</sub>H<sub>6</sub>O<sub>3</sub> M.= 102,09 CAS [108-32-7]

EC number (EINECS): 203-572-1

EC index number: 607-194-00-1

**Content:** >= 40 % <= 50 %

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

Eye Irrit. 2

### Hazard Pictograms



### Signal word

Warning

**Hazard statements**

H319 Causes serious eye irritation.

**Precautionary statements**

P264 Wash...thoroughly after handling.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

**Xi** Irritant

**R36** Irritating to eyes.

**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 immediately to provide artificial respiration. Seek immediate medical assistance.

**4.3 Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing.

**4.4 Eyes:**

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

**4.5 Swallowing:**

Avoid vomiting. Do not drink ethyl alcohol. Seek medical assistance. Administer a solution of medical-usage active charcoal.

**5. Fire-fighting means****5.1 Suitable fire-extinguishing means:**

Carbon dioxide (CO<sub>2</sub>). Foam. Dry powder.

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

No specific data.

**5.3 Special risks:**

Flammable. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. May form explosive mixtures with the air.

**5.4 Protective equipment:**

Suitable clothing and footwear.

**6. Measures to be taken in the event of accidental spillage****6.1 Individual precautions:**

Do not inhale the fumes.

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

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:**

Avoid the formation of electrostatic charges. No special indications.

## **7.2 Storage:**

Well sealed containers. In well ventilated premises. Away from sources of ignition and heat. Do not store in plastic containers.

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

## **8.1 Technical protective measures:**

No special indications.

## **8.2 Exposure limit control:**

: Data not available.

## **8.3 Respiratory protection:**

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

## **8.4 Hand protection:**

Use suitable gloves

## **8.5 Eye protection:**

Use suitable goggles.

## **8.6 Individual hygiene measures:**

Remove contaminated clothing. Use suitable work clothing. Wash hands and face before breaks and when the job is done.

## **8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

# **9. Physical and chemical properties**

Appearance: N/A

Colour:

N/A

Granulometry: N/A

Odour: Characteristic.

pH:

N/A

Melting point/freezing point: N/A

Initial boiling point and boiling range:

N/A

Flash point: 25 °C

Flammability (solid, gas):  
N/A  
Upper/lower flammability or explosive limits:  
N/A  
Vapour pressure: N/A  
Vapour density: N/A  
Relative density:  
N/A  
Solubility: in Soluble in water.  
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:**

High temperatures.

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

Strong oxidant agents. Concentrated sulfuric acid. Nitric acid. Sulphur. Rubber.

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

No specific data.

### **10.4 Complementary information:**

No specific data.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

: Data not available.

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

Conclusions are lacking regarding evaluation of a damaging effect on the foetus. If fumes inhaled: Irritations to the respiratory tracts. Risk of cutaneous absorption. Due to absorption: Systemic effects: headaches drowsiness dizziness euphoria anxiety spasms narcosis Effect potentiated by ethanol. Upon contact with the skin: irritations Following prolonged contact with the product. dermatitis Through contact with the eyes: irritations Can have a demoiaturizing effect on the skin, with the risk of secondary infection.

## **12. Environmental information**



### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Bacteria (*Photobacterium phosphoreum*) 16 mg/l

Classification:

Extr. toxic

Crustaceans (*Daphnia magna*) 165 mg/l

Classification:

Highly toxic

Fish (*Leuciscus Idus*) 86 mg/l

Classification:

Extr. toxic

Hydrological organisms. 10 mg/l

Classification:

Extr. toxic

12.1.2. - Receptor medium:

Risk for the water environment

High

Risk for the land environment

Medium

12.1.3. - Observations:

Extremely toxic in water environments.

### **12.2 Persistence and Degradability :**

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Biodegradable product.

### **12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

Data not available.

### **12.4 Mobility in soil :**

Repartition:  $\log P(\text{oct}) = 2,9$

Repartition:  $\log \text{BCF} = 2,4$

### **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.

Dangerous for drinking water.

Do not allow it to enter the sewage system.

Risk of formation of explosive fumes on the surface of the water.

DATA BASED on the components of the preparation.

(Major component: xylene).

## **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: FLAMMABLE LIQUID, N.O.S.

UN 1993 Class: 3 Packaging group: III (D/E)

By sea (IMDG):

Technical name: FLAMMABLE LIQUID, N.O.S.

UN 1993 Class: 3 Packaging group: III

By air (ICAI-IATA):

Technical name: Flammable liquid, n.o.s.

UN 1993 Class: 3 Packaging group: III

Packaging instructions: CAO 366 PAX 355

## **15. Regulatory information**

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

## **16. Other information**

### Other precautionary statements

P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash...thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P321 Specific treatment (see on this label).  
P322 Specific measures (see on this label).  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P363 Wash contaminated clothing before reuse.  
P370+P378 In case of fire: Use for extinction.  
P403+P235 Store in a well-ventilated place. Keep cool.

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

R-phrases(s):	<b>R36/38</b> Irritating to eyes and skin. <b>R20/21</b> Harmful by inhalation and in contact with skin. <b>R10</b> Flammable.
S-phrases(s):	<b>S25</b> Avoid contact with eyes. <b>S16</b> Keep away from sources of ignition - No smoking.

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