

# Safety Data Sheet

According to Regulation (EC) 1907/2006



## 1493 Potassium Chlorate

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

#### 1.1 Identification of the substance or preparation

Name:

Potassium Chlorate

**Synonym:**

**REACH Registration Number:** 01-2119494917-18-XXXX

#### 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.**

Ox. Sol. 1

Acute Tox. 1

Aquatic Chronic 2

### Hazard Pictograms



### Signal word

Danger

### **Hazard statements**

H271 May cause fire or explosion; strong oxidiser.  
H300 Fatal if swallowed.  
H411 Toxic to aquatic life with long lasting effects.

### **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P273 Avoid release to the environment.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P306+P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  
P370+P376 In case of fire: Stop leak if safe to do so.  
P371+P380+P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

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

<b>O</b> Oxidizing	R9
<b>Xn</b> Harmful	R20/22
<b>N</b> Dangerous for the environment	R51/53

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

## **3. Component Composition/Information**

Name: Potassium Chlorate  
Formula:  $\text{KClO}_3$  M.= 122,55 CAS [3811-04-9]  
EC number (EINECS): 223-289-7  
EC index number: 017-004-00-3  
REACH Registration Number: 01-2119494917-18-XXXX

## **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 soap and water. Remove contaminated clothing.

### **4.4 Eyes:**

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

### **4.5 Swallowing:**

Wash mouth out immediately. Seek medical assistance.

## **5. Fire-fighting means**

**5.1 Suitable fire-extinguishing means:**

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

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

Running water.

**5.3 Special risks:**

In the event of fire, toxic fumes may form: CO y CO<sub>2</sub>. Encourages fire to break out. Keep away from combustible substances.

**5.4 Protective equipment:**

Suitable clothing and footwear.

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

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 dry 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:**

Ensure good ventilation and renewal of the air in the premises. Light-sensitive.

**7.2 Storage:**

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

**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:**

If dust forms, 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 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: solid

Colour: White

Granulometry: N/A

Odour: Odourless.

pH: ~5,6 ((73 g/l))

Melting point/freezing point: 356 °C

Initial boiling point and boiling range:

N/A

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:

N/A

Solubility: 73 g/l in water ( 20 °C )

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: above 400 °C

Kinematic viscosity: N/A

Dynamic 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. Acids. Alkaline compounds.

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

Carbon monoxide. Carbon dioxide. Nitrogen oxides.

### **10.4 Complementary information:**

The product is chemically stable under standard ambient conditions (room temperature).

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 1.200 mg/kg

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

Through contact with the eyes: irritations Serious injuries

## **12. Environmental information**

**12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Crustaceans (Daphnia magna) 880 mg/l

Classification: Highly toxic

**12.2 Persistence and Degradability :**

Data not available.

**12.3 Bioaccumulative potential:**

Data not available.

**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.

**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: POTASSIUM CHLORATE

UN 1485 Class: 5.1 PELIG.M.AMB Packaging group: II (E)

By sea (IMDG):

Technical name: POTASSIUM CHLORATE

UN 1485 Class: 5.1 PELIG.M.AMB Packaging group: II

By air (ICAI-IATA):

Technical name: Potassium chlorate

UN 1485 Class: 5.1 PELIG.M.AMB Packaging group: II

Packaging instructions: CAO 562 PAX 558

**15. Regulatory information**

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

For this product a chemical safety assessment was not carried out.

## 16. Other information

### Other precautionary statements

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

R-phrase(s):     **R9** Explosive when mixed with combustible material.  
                      **R20/22** Harmful by inhalation and if swallowed.  
                      **R51/53** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s):     **S16** Keep away from sources of ignition - No smoking.  
                      **S27** Take off immediately all contaminated clothing.  
                      **S61** Avoid release to the environment. Refer to special instructions/safety data sheets.

Version and revision date : 5 26.11.2012

Replaced: 15.09.2011

In respect of the previous review, changes have been made to the following sections: 1, 2, 5, 7, 8, 10, 12, 15

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.