



## 1527 Potassium Permanganate

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

#### 1.1 Identification of the substance or preparation

Name:

Potassium Permanganate

#### Synonym:

Permanganic Acid Potassium Salt

**REACH Registration Number:** 01-2119480139-34-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) nº 1272/2008.**

Ox. Sol. 2

Acute Tox. 4

Aquatic Acute 1

Aquatic Chronic 1

#### Hazard Pictograms



#### Signal word

Danger

### **Hazard statements**

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

### **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P264 Wash...thoroughly after handling.

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

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

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

<b>N</b>	Dangerous for the environment	R50/53
<b>Xn</b>	Harmful	R22
<b>O</b>	Oxidizing	R8

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

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

Name: Potassium Permanganate

Formula:  $\text{KMnO}_4$  M.= 158,04 CAS [7722-64-7]

EC number (EINECS): 231-760-3

EC index number: 025-002-00-9

REACH Registration Number: 01-2119480139-34-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 to provide artificial respiration. In the event sickness persists, seek 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:**

Drink milk neat or mixed with raw eggs. Induce vomiting. Stomach lavage. Seek medical assistance.

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

**5.1 Suitable fire-extinguishing means:**

As appropriate to the environment.

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

No specific data.

**5.3 Special risks:**

Incombustible. 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:**

Do not inhale the dust.

**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 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:**

No special indications.

**7.2 Storage:**

Well sealed containers. Dry atmosphere. Keep away from flammable substances, sources of ignition and heat. Room temperature.

**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:**

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: Dark brown to violet

Granulometry: N/A

Odour: Odourless.

pH: 7 - 9

Melting point/freezing point: 50 °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: <0,01 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) 2,70

Solubility: 65 g/l in water 20 °C

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: above 240 °C

Viscosity: N/A

## **10. Stability and reactivity**

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

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

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

Organic compounds. Acids. Sulphur. Concentrated sulfuric acid. Ammoniacal compounds. Alcohols. Concentrated sulfuric acid. Phosphorus. Flammable substances. Hydrogen peroxide. Hydroxylamine.

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

No specific data.

### **10.4 Complementary information:**

Vigorous oxidizing agent. Risk of explosion of dust.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD L0 oral hmn : 143 mg/kg

LD50 oral rat : 1.090 mg/kg

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

If dust inhaled: Can cause oedemas in the respiratory tract Upon contact with the skin: burns Through contact with the eyes: burns If swallowed: nausea vomiting Risk of perforation in the oesophagus and stomach.

## **12. Environmental information**

### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Crustaceans (Daphnia magna) EC0 0,63

Classification: Extr. toxic

Fish 3,2 mg/l

Classification:

Extr. toxic

12.1.2. - Receptor medium:

Risk for the water environment

Low

Risk for the land environment

Low

12.1.3. - Observations:

Bactericide effect. Generally toxic for water organisms.

Acute ecotoxicity in the dumping area.

### **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:

### **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.

Product used in physico-chemical purification of water with strong organic charge.

## **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 PERMANGANATE

UN 1490 Class: 5.1 PELIG.M.AMB Packaging group: II (E)

By sea (IMDG):

Technical name: POTASSIUM PERMANGANATE

UN 1490 Class: 5.1 PELIG.M.AMB Packaging group: II

By air (ICAI-IATA):

Technical name: Potassium permanganate

UN 1490 Class: 5.1 PELIG.M.AMB Packaging group: II

Packaging instructions: CAO 562 PAX 558

## **15. Regulatory information**

The substance is subject to Regulation (EC) No 273/2004 of the European Parliament and of the Council, of 11 February 2004 on drug precursors, Council Regulation (EC) No 111/2005 of 22 December 2004 laying down rules for the monitoring of trade between the Community and third countries in drug precursors, Commission Regulation (EC) No 1277/2005 of 27 July 2005 laying down implementing rules for Regulation (EC) No 273/2004 of the European Parliament and of the Council on drug precursors and for Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors.

## **16. Other information**

### **Other precautionary statements**

P273 Avoid release to the environment.

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.

P330 Rinse mouth.

P370+P378 In case of fire: Use for extinction.

P391 Collect spillage.

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

R-phrases(s):     **R50/53** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
                          **R22** Harmful if swallowed.  
                          **R8** Contact with combustible material may cause fire.

S-phrases(s):     **S61** Avoid release to the environment. Refer to special instructions/safety data sheets.  
                          **S60** This material and its container must be disposed of as hazardous waste.

Review number and date: 4 15.09.2011

Date published: 15.09.2011

In respect of the previous review, changes have been made to the following sections: 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.