



S a f e t y   D a t a   S h e e t  
According to Regulation (EC) 1907/2006  
and (EU) 453/2010

**1502 Potassium Dichromate 1/60 mol/l \*(0,1N)**

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Name:

Potassium Dichromate 1/60 mol/l \*(0,1N)

**CAS:** [7778-50-9]

**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 Relevant identified uses of the substance or mixture:**

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**

**2.1 Classification of the substance or the mixture.**

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

Carc. 1B  
Muta. 1B  
Acute Tox. 4  
Resp. Sens 1  
Skin Sens. 1  
Aquatic Chronic 3

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

**T** Toxic

R42/43  
RE20  
R46  
R45  
R52/53

### **2.2 Label elements:**

#### **Hazard Pictograms**



#### **Signal word**

Danger

#### **Hazard statements**

H350 May cause cancer.  
H340 May cause genetic defects.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust, fume, gas, mist, vapours or spray.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.

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

### **2.3 Other hazards:**

No further relevant information available.

## **3. Composition/information on ingredients**

Aqueous solution

Name: Potassium Dichromate 1/60 mol/l \*(0,1N)

Formula:  $K_2Cr_2O_7$  M.= 294,19 CAS [7778-50-9]

EC number (EINECS): 231-906-6

EC index number: 024-002-00-6

## COMPOSITION:

### 0001: Potassium Dichromate

Formula:  $K_2Cr_2O_7$  M.= 294,19 CAS [7778-50-9]

EC number (EINECS): 231-906-6

EC index number: 024-002-00-6

REACH Registration Number: 01-2119454792-32-XXXX

**Content:**  $\geq 0,1 \%$   $\leq 0,5 \%$

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

Carc. 1B

Muta. 1B

Repr. 1B

Ox. Sol. 2

Acute Toxicity Dermal cat. 4

Acute Toxicity Oral cat. 3

Acute Toxicity Inhalation cat. 2

Skin Corr. 1B

Resp. Sens 1

Skin Sens. 1

STOT RE 1

Aquatic Acute 1

Aquatic Chronic 1

## Hazard Pictograms



## Signal word

Danger

## Hazard statements

H350 May cause cancer.

H340 May cause genetic defects.

H360FD May damage fertility. May damage the unborn child.

H272 May intensify fire; oxidiser.

H312 Harmful in contact with skin.

### **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

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.

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

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

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

**T+** Very toxic

**N** Dangerous for the environment

**O** Oxidizing

**R45** May cause cancer.

**R46** May cause heritable genetic damage.

**R60** May impair fertility.

**R61** May cause harm to the unborn child.

**R8** Contact with combustible material may cause fire.

**RE21** Also harmful in contact with skin.

**RE25** Also toxic if swallowed.

**RE26** Also very toxic by inhalation.

**R34** Causes burns.

**R42/43** May cause sensitisation by inhalation and skin contact.

**RE48/23** Also toxic: danger of serious damage to health by prolonged exposure through inhalation.

**R50/53** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## **4. First aid measures**

### **4.1 General indications:**

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

### **4.2 Inhaling:**

Go out into the fresh air.

### **4.3 Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing.

### **4.4 Eyes:**

Wash with plenty of water, keeping eyelids open. In the event of irritation, seek medical assistance.

### **4.5 Swallowing:**

Drink large amounts of water. Induce vomiting. Call for medical help.

## **5. Firefighting measures**

**5.1 Suitable extinguishing media:**

Water. Alcohol resistant foam.

**5.2 Unsuitable extinguishing media:**

No specific data.

**5.3 Special hazards arising from the substance or mixture:**

Incombustible.

**5.4 Advice for firefighters:**

Suitable clothing and footwear.

**6. Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:**

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

**6.2 Environmental precautions:**

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

**6.3 Methods and material for containment and cleaning up:**

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 Precautions for safe handling:**

Limited shelf-life.

**7.2 Conditions for safe storage, including any incompatibilities:**

Well sealed containers.

**Recommended storage temperature:** Room temperature. Restricted access, only authorized to technicians.

**8. Exposure controls/personal protection****8.1 Exposure controls:**

No special indications.

**8.2 Control parameters:**

Risk of sensitization.

**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/face 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: liquid

Colour: yellow reddish

Granulometry: N/A

Odour: Odourless.

pH: ~3,8

Melting point/freezing point: N/A

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:

Insertar Aquí Grupo de repetición

(20/4) 1,004 g/ml

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

## **10. Stability and reactivity**

### **10.1 Conditions to avoid:**

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

### **10.2 Incompatible materials:**

No specific data.

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

No specific data.

### **10.4 Chemical stability:**

No specific data.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

: Data not available.

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

Taking the preparation's components into account, the likely dangerous characteristics are as follows: Upon contact with the skin: burns Penetration of the product causes injuries which are hard to cure. Through contact with the eyes: burns If swallowed: gastro-intestinal disorders diarrhoea vomiting Risk of aspiration upon vomiting. Risk of pneumonia. May cause: spasms cardiovascular failure loss of consciousness Formation of methemoglobinemia. Due to absorption: hepatic problems kidney problems If inhaled: allergic reaction Risk of pneumonia. Allergic reaction in nasal mucosae (perforation). Carcinogenic in animal testing. Risk of sensitization Antidotes: chelate producers (e.g.: EDTA, DMPS, etc.). May cause heritable genetic damage. Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **12. Environmental information**

### **12.1 Toxicity:**

#### **- EC50 test (mg/l):**

Algae (Cr) 5 mg/l

Classification: Extr. toxic

Crustaceans (Daphnia magna) (Cr) 0,3 mg/l

Classification: Extr. toxic

Fish (Cr) 29 mg/l

Classification: Extr. toxic

#### **- Receptor medium:**

Risk for the water environment

High

Risk for the land environment

Medium

#### **- Observations:**

The ecotoxicity is due to the chrome ion.

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

#### **- Test:**

#### **- Biotic degradation classification:**

BOD5/COD

Biodegradability

#### **- Abiotic degradation depending on pH:**

#### **- Observations:**

### **12.3 Bioaccumulative potential:**

#### **- Test:**

#### **- Bioaccumulation:**

Risk

#### **- Observations:**

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

Data not available.

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

Data not available.

### **12.6 Other adverse effects:**

Do not allow it to enter soils or water channels.

High pollutant product.

Data refer to the pure substance.

## **13. Disposal considerations**

### **13.1 Waste treatment methods:**

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. Transport information**

Overland (ADR):

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

UN 3287 Class: 6.1 CONTAM. MAR Packaging group: III (E)

By sea (IMDG):

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

UN 3287 Class: 6.1 CONTAM. MAR Packaging group: III

By air (ICAI-IATA):

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

UN 3287 Class: 6.1 CONTAM. MAR Packaging group: III

Packaging instructions: CAO 663 PAX 655

## **15. Regulatory information**

Contains a substance included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

## **16. Other information**

### Other precautionary statements

P280 Wear protective gloves, protective clothing, eye protection or face protection.  
P281 Use personal protective equipment as required.  
P285 In case of inadequate ventilation wear respiratory protection.  
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.  
P304+P341 IF INHALED: If breathing is difficult, 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.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P321 Specific treatment (see on this label).  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
P363 Wash contaminated clothing before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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

|               |                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R-phrases(s): | <b>R42/43</b> May cause sensitisation by inhalation and skin contact.<br><b>RE20</b> Also harmful by inhalation.<br><b>R46</b> May cause heritable genetic damage.<br><b>R45</b> May cause cancer.<br><b>R52/53</b> Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.                                                                     |
| S-phrases(s): | <b>S61</b> Avoid release to the environment. Refer to special instructions/safety data sheets.<br><b>S60</b> This material and its container must be disposed of as hazardous waste.<br><b>S45</b> In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).<br><b>S53</b> Avoid exposure - obtain special instructions before use. |

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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.