



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

**4385 Potassium Dichromate 0,04 mol/l with 80 g/l of
Mercury(II) Sulphate**

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

1.1 Product identifier

Name:

Potassium Dichromate 0,04 mol/l with 80 g/l of Mercury(II) Sulphate

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

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
Skin Sens. 1
Acute Tox. 2
Acute Tox. 1
Acute Tox. 2
STOT RE 2
Eye Irrit. 2
Skin Irrit. 2
Aquatic Chronic 2

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

N Dangerous for the environment
T+ Very toxic

RE26/27/28
R43
R46
R49
R33
R36/38
R51/53

2.2 Label elements:

Hazard Pictograms



Signal word

Danger

Hazard statements

H350i May cause cancer by inhalation.
H340 May cause genetic defects.
H317 May cause an allergic skin reaction.
H330 Fatal if inhaled.
H310 Fatal in contact with skin.
H300 Fatal if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H411 Toxic 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.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust, fume, gas, mist, vapours or spray.
P262 Do not get in eyes, on skin, or on clothing.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

Name: Potassium Dichromate 0,04 mol/l with 80 g/l of Mercury(II) Sulphate

COMPOSITION:

0001: Mercury(II) Sulphate

Formula: HgSO_4 M.= 296,65 CAS [7783-35-9]

EC number (EINECS): 231-992-5

EC index number: 080-002-00-6

Content: $\geq 2\%$

Classification Regulation (CE) n° 1272/2008.

Acute Tox. 2

Acute Tox. 1

Acute Tox. 2

Aquatic Acute 1

Aquatic Chronic 1

Hazard Pictograms



Signal word

Danger

Hazard statements

H330 Fatal if inhaled.
H310 Fatal in contact with skin.
H300 Fatal if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

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.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection or 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.
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.
P361 Remove/Take off immediately all contaminated clothing.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

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

N Dangerous for the environment
T+ Very toxic

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R33 Danger of cumulative effects.
R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

0002: 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: $\geq 0,5 \%$ $\leq 5 \%$

Classification Regulation (CE) nº 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.

0003: Sulfuric Acid 93-98%

Formula: H_2SO_4 M.= 98,08 CAS [7664-93-9]
EC number (EINECS): 231-639-5
EC index number: 016-020-00-8
REACH Registration Number: 01-2119458838-20-XXXX

Content: $\geq 10 \%$ $\leq 20 \%$

Classification Regulation (CE) nº 1272/2008.

Skin Corr. 1A

Hazard Pictograms



Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash...thoroughly after handling.
P280 Wear protective gloves, protective clothing, eye protection or face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.
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.
P321 Specific treatment (see on this label).
P338 Remove contact lenses, if present and easy to do. Continue rinsing.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.

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

C Corrosive

R35 Causes severe burns.

4. First aid measures

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. Take the product out with cotton wool soaked in polyethylene-glycol 400.

4.4 Eyes:

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

4.5 Swallowing:

Drink milk neat or mixed with raw eggs. Drink large amounts of water. Induce vomiting. Seek immediate medical assistance.

5. Firefighting measures

5.1 Extinguishing media:

As appropriate to the environment.

5.2 Unsuitable extinguishing media:

No specific data.

5.3 Special hazards arising from the substance or mixture:

Incombustible. In the event of fire, toxic fumes may form: Do not dispose of chemically polluted water into the soil, into water supplies or down drains. Take the necessary precautions to keep back the water used for subsequent elimination in accordance with D

5.4 Advice for firefighters:

Suitable clothing and footwear. Self-contained breathing equipment.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

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:

Handle under an extractor fan.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers. In well ventilated premises. Restricted access, only authorized to technicians.

8. Exposure controls/personal protection

8.1 Exposure controls:

No special indications.

8.2 Control parameters:

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/face protection:

Use safety glasses.

8.6 Individual hygiene measures:

Remove contaminated clothing. Use suitable work clothing. Wash hands and face before breaks and when the job is done. Do not eat, drink or smoke in the workplace.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: liquid

Colour: Orange

Granulometry: N/A

Odour: Odourless.

pH:

N/A

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) 1,19 g/ml

Solubility: in () 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:

Metals.

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:

Mercury compounds have toxic effects on cells and protoplasts. Symptoms due to acute intoxication of (Hg): Through contact with the eyes: Serious injuries If swallowed and inhaled: Tissue injuries (mouth, oesophagus, stomach and intestinal tract). Metallic taste nausea vomiting stomach pains intestinal disorders Burns in the digestive apparatus oedemas in the respiratory tract pneumonia. Causes blood alterations arrhythmia collapse kidney problems Chronic effects Buccal infections, mercury halo, risk of loss of teeth. Risk of effects on the central nervous system sensitization sight disorders hallucinations dizziness Pregnant women must not be allowed to come into contact with the product. Possible risk of adverse effects to the foetus during pregnancy. Other dangerous characteristics are not discarded.

12. Environmental information

12.1 Toxicity:

- EC50 test (mg/l):

Bacteria (*Photobacterium phosphoreum*) 0,046 mg/l

Classification:

Extr. toxic

Algae (*Sc. quadricauda*) 0,07 mg/l

Classification:

Extr. toxic

Algae (*M. aeruginosa*) 0,005 mg/l

Classification:

Extr. toxic

Fish (*Salmonidae*) 0,05 mg/l

Classification:

Extr. toxic

Fish (*P. promelas*) 0,19 mg/l

Classification:

Extr. toxic

Fish (*Leuciscus Idus*) 0,013 mg/l

Classification:

Extr. toxic

- Receptor medium:

Risk for the water environment

High

Risk for the land environment

High

- Observations:

The ecotoxicity is due to the mercury ion.

Toxic product in any environment. Ecotoxicity acute and chronic.

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 = High

- Observations:

The mercury ion is bioaccumulable in the food chain.

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other adverse effects:

Dangerous for drinking water.

High pollutant product.

Do not allow it to enter soils or water channels.

DATA BASED on the components of the preparation.

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, CORROSIVE, INORGANIC, N.O.S.

UN 3289 Class: 6.1 8 CONTAM. MAR PELIG.M.AMB Packaging group: II (D/E)

By sea (IMDG):

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

UN 3289 Class: 6.1 8 CONTAM. MAR PELIG.M.AMB Packaging group: II

By air (ICAI-IATA):

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

UN 3289 Class: 6.1 8 CONTAM. MAR PELIG.M.AMB Packaging group: II

Packaging instructions: CAO 660 PAX 653

15. Regulatory information

The substance is subject to Regulation (EC) No 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals.

16. Other information

Other precautionary statements

- 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.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing, eye protection or 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.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P310 Immediately call a POISON CENTER or doctor/physician.
- 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.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: 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.
- P391 Collect spillage.
- 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-phrases(s): **RE26/27/28** Also very toxic by inhalation, in contact with skin and if swallowed.
 R43 May cause sensitisation by skin contact.
 R46 May cause heritable genetic damage.
 R49 May cause cancer by inhalation.
 R33 Danger of cumulative effects.
 R36/38 Irritating to eyes and skin.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S-phrases(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.
 S13 Keep away from food, drink and animal feedingstuffs.
 S53 Avoid exposure - obtain special instructions before use.
 S60 This material and its container must be disposed of as hazardous waste.
 S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Version and revision date : 4 07.10.2017

Date published: 07.10.2017

In respect of the previous review, changes have been made to the following sections: 1,2,4,5,6,7,8,9,10,11,13,14,15

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.