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

1471 **Lead(II) Chromate**

Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation
Name:
Lead(II) Chromate

1.2 Synonym:
Chrome Yellow, King´s Yellow, Leipzig Yellow, Paris Yellow, Pigment wellow 34

1.3 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.4 Identification of the company or firm:

PANREAC QUIMICA S.L.U.
C/Garraf 2
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E-08211 Castellar del Vallès
(Barcelona) Spain
Tel. (+34) 937 489 400
e-mail: product.safety@panreac.com
Emergencies:
Single telephone number for emergency calls: 112 (EU)
Tel.: (+34) 937 489 499

Identification of dangers

Classification of the substance or the mixture.

Classification Regulation (CE) nº 1272/2008.

Carc. 1B

Repr. 1A

Aquatic Acute 1

Aquatic Chronic 1

Hazard Pictograms

Signal word

Danger

Hazard statements

H350 May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H360Df May damage the unborn child. Suspected of damaging fertility.

H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H410 Very 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.

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

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

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

	R62
	R33
N Dangerous for the environment	R61
T Toxic	R45
	R50/53

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

Component Composition/Information

Name: Lead(II) Chromate
Formula: PbCrO4 M.= 323,18 CAS [7758-97-6]
EC number (EINECS): 231-846-0
EC index number: 082-004-00-2

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.

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. Seek medical assistance.

4.5 Swallowing:
Drink large amounts of water. Induce vomiting. Seek immediate medical assistance.

Fire-fighting means

5.1 Suitable fire-extinguishing means:
As appropriate to the environment.

5.2 Fire-fighting means which must NOT be used:

5.3 Special risks:
Incombustible. Encourages fire to break out. Keep away from combustible substances. In the event of fire, toxic fumes may form.

5.4 Protective equipment:

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.

Handling and storage

7.1 Handling:
No special indications.

7.2 Storage:
Well sealed containers.Dry atmosphere.Atmospheric temperature.

Staff exposure/protection controls

8.1 Technical protective measures:
Avoid exposure during handling and transfer.

8.2 Exposure limit control:
TLV-TWA(Pb): 0,05 mg/m3
(Cr): 0,012 mg/m3
VLA-ED(Cr): 0,012 mg/m3

8.3 Respiratory protection:
If dust forms, use suitable respiratory protection. Filter P3.

8.4 Hand protection:
Use suitable gloves

8.5 Eye protection:
Use suitable goggles.

8.6 Individual hygiene measures:
Remove contaminated clothing. Wash hands before breaks and when the job is done. Use suitable work clothing.

8.7 Environmental exposure controls:
Fulfill the commitments under local environmental protection legislation.

Physical and chemical properties

Appearance: solid

Colour: Yellow to brownish-yellow

Granulometry:

Odour: Odourless.

pH:

Melting point/freezing point: 844 °C

Initial boiling point and boiling range:
Flash point:
Flammability (solid, gas):
Upper/lower flammability or explosive limits:
Vapour pressure:
Vapour density:
Relative density: 6,12
Solubility: Insoluble in water
Partition coefficient: n-octanol/water:
Auto-ignition temperature:
Decomposition temperature:
Viscosity:

Stability and reactivity

10.1 Conditions which should be avoided:

10.2 Matter which should be avoided:

Non-metals. Flammable substances. Cyanides.

10.3 Hazardous decomposition products:

10.4 Complementary information:

Toxicological information

- **Acute toxicity:**

LD L0 oral mus : 12.000 mg/kg

- **Dangerous effects for health:**

The data we have are insufficient for correct toxicological assessment. Based on the physico-chemical properties, the likely dangerous characteristics are: For lead compounds in general : In high concentrations: The product is absorbed with difficulty in the gastro-intestinal tract, which can cause acute toxicity. After a period of latency: Metallic taste nausea vomiting intestinal disorders shock Chronic effects muscular disorders blood alterations effects on the central nervous system Pregnant women must not be allowed to come into contact with the product. Possible risk of adverse effects to the foetus during pregnacy. Possible risk of impaired fertility. If swallowed in large quantities: nausea vomiting Other dangerous characteristics are not discarded.

Environmental information

12.1 Mobility:

12.2 Ecotoxicity:

12.1.1 - EC50 test (mg/l):

Bacteria (Ps. putida) (Pb) 1,4 mg/l

Classification: Extr. toxic

Algae (Sc. cuadricauda) (Pb) 3,7 mg/l

Classification: Extr. toxic

Algae (M. aeruginosa) (Pb) 0,45 mg/l

Classification: Extr. toxic

Protozoa (E. sulcatum) (Pb) 0,02 mg/l

Classification: Extr. toxic

Protozoa (U. parduczi). (Pb) 0,07 mg/l

Classification: Extr. toxic

Crustaceans (Daphnia magna) (Pb) 2,5 mg/l

Classification: Extr. toxic

Fish (Salmo gairdneri) (Pb) 0,14 mg/l

Classification: Extr. toxic

Fish (Leuciscus Idus) (Pb) 546 mg/l

Classification: Highly toxic

12.2.2 - Receptor medium:

Risk for the water environment

High

Risk for the land environment

Medium

12.2.3 - Observations:

High toxicity in water environment.

12.3 Degradability:

12.3.1 - Test:

12.3.2 - Biotic degradation classification:

BOD5/COD

Biodegradability

12.3.3 - Abiotic degradation depending on pH:

12.3.4 - Observations:

12.4 Accumulation:
12.4.1 - Test:
12.4.2 - Bioaccumulation:
Risk
12.4.3 - Observations:
Bioaccumulable product.

12.5 Other possible effects on the environment:
The ecotoxic effect of lead is reduced due to the compound"s low solubility.
Do not allow it to enter soils or water channels.
Water-pollutant product.

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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Information concerning transport

Overland (ADR):
Technical name: LEAD COMPOUND, SOLUBLE, N.O.S.
UN 2291 Class: 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: III (E)

By sea (IMDG):
Technical name: LEAD COMPOUND, SOLUBLE, N.O.S.
UN 2291 Class: 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: III

By air (ICAI-IATA):
Technical name: Lead compound, soluble, n.o.s.
UN 2291 Class: 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: III

Packaging instructions: CAO 619 PAX 619

Regulatory information

Other information

Other precautionary statements

P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P391 Collect spillage.
P405 Store locked up.

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

R-phrase(s):	**R62** Possible risk of impaired fertility. **R33** Danger of cumulative effects. **R61** May cause harm to the unborn child. **R45** May cause cancer. **R50/53** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(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. **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the lable where possible). **S53** Avoid exposure - obtain special instructions before use.

Review number and date: 3 3.11.10
Date published: 3.11.10
In respect of the previous review, changes have been made to the following sections: 2, 3, 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.