



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

# 121880 2,4-Pentanedione (Reag. USP, Ph. Eur.) PA

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

1.1 Identification of the substance or preparation

Name:

2.4-Pentanedione

## 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

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Emergencies:

Single telephone number for emergency calls: 112 (EU)

Tel.:(+34) Tel.:(+34) 937 489 499

## 2. Identification of dangers

Flammable. Harmful if swallowed.

## 3. Component Composition/Information

Name: 2,4-Pentanedione

Formula: CH<sub>3</sub>COCH<sub>2</sub>COCH<sub>3</sub> M.=100,11 CAS [123-54-6]

EC number (EINECS): 204-634-0 EC index number: 606-029-00-0

## 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. Loosen clothing to release respiratory channels.

#### 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:

Precaution in the event of vomiting (there is a risk of aspiration). Laxatives: sodium sulphate (1 soup-spoonful in 250 ml of water). Administer Vaseline oil as a laxative (3 ml/kg). Do not drink milk. Do not administer castor oil. Seek medical assistance.

## 5. Fire-fighting means

## 5.1 Suitable fire-extinguishing means:

Foam. Dry powder. Carbon dioxide  $(CO_2)$ .

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

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## 5.3 Special risks:

Flammable. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. May form explosive mixtures with the air.

## 5.4 Protective equipment:

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## 6. Measures to be taken in the event of accidental spillage

## 6.1 Individual precautions:

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#### **6.2 Precautions for care of the environment:**

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#### 6.3 Methods for collection/cleaning:

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 Handling:

No special indications.

#### 7.2 Storage:

Well sealed containers. In well ventilated premises. Away from sources of ignition and heat. Atmospheric temperature.

## 8. Staff exposure/protection controls

#### 8.1 Technical protective measures:

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#### 8.2 Exposure limit control:

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#### 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 protection:

Use suitable goggles.

#### 8.6 Individual hygiene measures:

Remove contaminated clothing. Wash hands and face 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.

The supplier of the protection equipment must specify the type of protection to be worn when handling the substance or preparation, including the type of material and the breakthrough time of the material, with regard to the amount and duration of exposure.

## 9. Physical and chemical properties

Appearance:

Transparent, colourless liquid.

Odour:

Characteristic.

pH X6(200 g/l)

Boiling point: 140,5°C Melting point: -23°C Flash point: 34°C

Self-ignition temperature: 340°C

Explosion limits (lower/upper): 1,7 / - vol.%

Vapour pressure: 8,5 hPa (20°C)

Density (20/4): 0,975

Solubility: 160 g/l in water at 20°C

## 10. Stability and reactivity

#### 10.1 Conditions which should be avoided:

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#### 10.2 Matter which should be avoided:

Acids. Bases. Isocyanates. Amines. Strong oxidant agents. Iron. Metals. HF.

## 10.3 Hazardous decomposition products:

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## 10.4 Complementary information:

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## 11. Toxicological information

## 11.1 Acute toxicity:

LD<sub>50</sub> oral rat: 55 mg/kg LCLo inh rat: 1000 ppm/4h LD<sub>50</sub> dermal rabbit: 810 mg/kg

Rabbit skin sensitization test: 488 mg/72h: light Eye irritation test (rabbits): 20 mg/72h: highly

## 11.2 Dangerous effects for health:

Upon contact with the skin: irritations. Through contact with the eyes: irritations.

If swallowed: nausea, vomiting.

## 12. Environmental information

## 12.1 Mobility:

Repartition: log P(oct)= 1,9

## 12.2 Ecotoxicity:

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12.1.1 - EC<sub>50</sub> test (mg/l):
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Algae (Sc. cuadricauda) = EC<sub>0</sub> 3 mg/l; Classification: Extr. toxic

Crustaceans (Daphnia magna) = 100 mg/l; Classification: Extr. toxic

Protozoa (E. sulcatum) =  $EC_0$  11 mg/l; Classification: Extr. toxic

12.2.2 - Receptor medium:

Risk for the water environment = ----

Risk for the land environment = ----

12.2.3 - Observations:

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## 12.3 Degradability:

12.3.1 - Test:  $BOD_5 = 56\%$  ThOD

12.3.2 - Biotic degradation classification:

BOD<sub>5</sub>/COD Biodegradability = Low, less than 1/10

12.3.3 - Abiotic degradation depending on pH: ------

12.3.4 - Observations:

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## 12.4 Accumulation:

12.4.1 - Test:

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12.4.2 - Bioaccumulation:

Risk = -----

12.4.3 - Observations:

Data not available.

## 12.5 Other possible effects on the environment:

Do not allow it to enter soils or water channels. Product hardly pollutant for water.

## 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.

#### 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.

## 14. Information concerning transport

Overland (ADR):

Technical name: 2,4-PENTANODIONA

ONU 2310 Class: 3 Packaging group: III (D/E)

By sea (IMDG):

Technical name: 2,4-PENTANODIONA ONU 2310 Class: 3 Packaging group: III

By air (ICAI-IATA):

Technical name: Pentano-2,4-diona
ONU 2310 Class: 3 Packaging group: III
Packaging instructions: CAO 310 PAX 309

#### 15. Mandatory information

## 15.1 Labelling as per REACH

Symbols:

Danger indications: Harmful

Phrases R: 10-22 Flammable. Harmful if swallowed.

Phrases S: 21-23c-24/25 When using do not smoke. Do not breathe vapour. Avoid

contact with skin and eyes.

EC index number: 606-029-00-0

## 16. Other information

Review number and date:0 07.06.09

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.