



## Safety Data Sheet

According to Regulation (EC) 1907/2006



1451 Paraformaldehyde

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

## 1.1 Identification of the substance or preparation

Name:

Paraformaldehyde

## 1.2 Synonym:

p-Formaldehyde, Polyoxymethylene

## 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

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)

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) n° 1272/2008.

Acute Tox. 4

Eye Irrit. 2

STOT SE 3

Skin Irrit. 2

Carc. 2

Skin Sens. 1

## Hazard Pictograms



## Signal word

Warning

## Hazard statements

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H351 Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H317 May cause an allergic skin reaction.

## 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/spray.

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.

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

R43

R40

Xn Harmful

R36/37/38

R22

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

# Component Composition/Information

Name: Paraformaldehyde

Formula: (HCHO)<sub>n</sub> CAS [30525-89-4]

EC number (EINECS): 200-001-8

## 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 (for at least 15 minutes), keeping eyelids open. In the event of irritation, seek medical assistance.

### 4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Seek medical assistance.

## Fire-fighting means

### 5.1 Suitable fire-extinguishing means:

Dry powder. Foam. Carbon dioxide (CO<sub>2</sub>). Water.

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

### 5.3 Special risks:

Flammable. Keep away from sources of ignition. In the event of fire, fumes may form: Risk of explosion of dust.

### 5.4 Protective equipment:

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

### 6.1 Individual precautions:

### 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. Away from sources of ignition and heat. Do not store in metal containers. In a cool place.

## Staff exposure/protection controls

### 8.1 Technical protective measures:

Ensure good ventilation and renewal of the air in the premises.

### 8.2 Exposure limit control:

VLA-EC(Formaldehyde): 0,6 mg/m<sup>3</sup>

VLA-EC(Formaldehyde): 0,3 ppm

### 8.3 Respiratory protection:

If dust forms, use suitable respiratory protection. Filter B. Filter P3.

### 8.4 Hand protection:

Use suitable gloves neopren nitrile PVC latex

### 8.5 Eye protection:

Use suitable goggles.

### 8.6 Individual hygiene measures:

Remove contaminated clothing. Use complete protective equipment. 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.

## Physical and chemical properties

Appearance: solid

Colour: White

Granulometry:

Odour: Characteristic.

pH: 6

Melting point/freezing point: 160 - 165 °C

Initial boiling point and boiling range:

Flash point: 71 °C

Flammability (solid, gas):

Upper/lower flammability or explosive limits: / 40 %(V)

Vapour pressure: 1,93 hPa (25 °C)

Vapour density:

Relative density: 1,4

Solubility: Slightly soluble in cold water. Soluble in hot water.

Partition coefficient: n-octanol/water:

Auto-ignition temperature: 460 °C

Decomposition temperature: above 165 °C

Viscosity:

## Stability and reactivity

**10.1 Conditions which should be avoided:**

**10.2 Matter which should be avoided:**

Bases. Strong oxidant agents.

**10.3 Hazardous decomposition products:**

Formaldehyde. Carbon monoxide.

**10.4 Complementary information:**

## Toxicological information

- **Acute toxicity:**

LD50 oral rat : 800 mg/kg

LD L0 skn rbt : 10.000 mg/kg

- **Dangerous effects for health:**

If fumes inhaled: coughing breathing difficulties Upon contact with the skin: irritations allergic reaction Can cause burns Through contact with the eyes: irritations Can cause burns There are no definite objective conclusions regarding the carcinogenic effect of this substance.

## Environmental information

**12.1 Mobility:**

**12.2 Ecotoxicity:**

12.2.1 - EC50 test (mg/l):

Algae (*Sc. quadricauda*) EC10 1 mg/l

Classification: Extr. toxic

Protozoa: EC10 1 mg/l

Classification: Extr. toxic

Micro-organisms EC10 5 mg/l

Classification: Extr. toxic

12.2.2 - Receptor medium:

Risk for the water environment

Risk for the land environment

12.2.3 - Observations:

**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:

Data not available.

**12.4 Accumulation:**

12.4.1 - Test:

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.

## 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.

## **Information concerning transport**

Overland (ADR):

Technical name: PARAFORMALDEHYDE

UN 2213 Class: 4.1 Packaging group: III (E)

By sea (IMDG):

Technical name: PARAFORMALDEHYDE

UN 2213 Class: 4.1 Packaging group: III

By air (ICAI-IATA):

Technical name: Paraformaldehyde

UN 2213 Class: 4.1 Packaging group: III

Packaging instructions: CAO 420 PAX 419

## **Regulatory information**

## **Other information**

### Other precautionary statements

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P321 Specific treatment (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.

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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-phrase(s):	<b>R43</b> May cause sensitisation by skin contact. <b>R40</b> Limited evidence of a carcinogenic effect. <b>R36/37/38</b> Irritating to eyes, respiratory system and skin. <b>R22</b> Harmful if swallowed.
S-phrase(s):	<b>S36/37</b> Wear suitable protective clothing and gloves. <b>S26</b> In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. <b>S22</b> Do not breathe dust.

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.