



## Safety Data Sheet

According to Regulation (EC) 1907/2006



1334 Furfural \*stabilized with~ 0,1% of BHT

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

## 1.1 Identification of the substance or preparation

Name:

Furfural \*stabilized with~ 0,1% of BHT

## 1.2 Synonym:

2-Furaldehyde, 2-Furancarboxyaldehyde, Furan-2-Carbaldehyde, Furfuraldehyde

## 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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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

Acute Tox. 3

Acute Tox. 3

Eye Irrit. 2

STOT SE 3

Skin Irrit. 2

Carc. 2

## Hazard Pictograms



## Signal word

Danger

## Hazard statements

H312 Harmful in contact with skin.

H331 Toxic if inhaled.

H301 Toxic 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>.

## 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.

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

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

R40

R36/37/38

T Toxic  
R23/25

R21

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

# Component Composition/Information

Name: Furfural \*stabilized with~ 0,1% of BHT

Formula: C<sub>5</sub>H<sub>4</sub>O<sub>2</sub> M.= 96,09 CAS [98-01-1]

EC number (EINECS): 202-627-7

EC index number: 605-010-00-4

## 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. 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.

### 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. Keep respiratory tracts clear. Laxatives: sodium sulphate (1 soup-spoonful in 250 ml of water).

## Fire-fighting means

### 5.1 Suitable fire-extinguishing means:

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

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

### 5.3 Special risks:

Combustible. 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:

# 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 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.

# Handling and storage

## 7.1 Handling:

Avoid the formation of electrostatic charges.

## 7.2 Storage:

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

# Staff exposure/protection controls

## 8.1 Technical protective measures:

## 8.2 Exposure limit control:

VLA-ED: 2 ppm ó 8 mg/m<sup>3</sup>

## 8.3 Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter A. Filter P3.

## 8.4 Hand protection:

Use suitable gloves neopren

## 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: liquid

Colour: yellow to brown

Granulometry:

Odour: Characteristic.

pH:

Melting point/freezing point: -37 °C

Initial boiling point and boiling range: 162 °C

Flash point: 73 °C

Flammability (solid, gas):

Upper/lower flammability or explosive limits: 19,3 %(V) / 2,1 %(V)

Vapour pressure: 1 hPa (20 °C)

Vapour density:

Relative density: (20/4) 1,16

Solubility: 83 g/l water 20 °C

Partition coefficient: n-octanol/water:

Auto-ignition temperature: 315 °C

Decomposition temperature:

Viscosity:

## Stability and reactivity

### 10.1 Conditions which should be avoided:

High temperatures.

### 10.2 Matter which should be avoided:

Acids. Alkaline hydroxides. Alkaline solutions.

### 10.3 Hazardous decomposition products:

### 10.4 Complementary information:

Light-sensitive. The gases/fumes can form explosive mixtures with the air.

## Toxicological information

- **Acute toxicity:**

LD L0 oral rbt : 800 mg/kg

LD50 oral rat : 65 mg/kg

LD L0 skn rbt : 620 mg/kg

TC L0 inh man : 0,31 mg/m<sup>3</sup>

LC L0 inh mus : 370 ppm 6h

LC50 inh rat : 175 ppm 6h

LD50 ipr mus : 102 mg/kg

- **Dangerous effects for health:**

If fumes inhaled: Irritations to the respiratory tracts. Upon contact with the skin: irritations Risk of cutaneous absorption. Through contact with the eyes: irritations Toxic if swallowed, inhaled or absorbed through the skin. Systemic effects: effects on the central nervous system spasms paralysis hepatic problems Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## Environmental information

### 12.1 Mobility:

### 12.2 Ecotoxicity:

12.1.1 - EC50 test (mg/l):

Fish (*Salmo gairdneri*) 24 mg/l

Classification:

Extr. toxic

For fish food.

Classification: Highly toxic

12.2.2 - Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Medium

12.2.3 - Observations:

Medium water ecotoxicity.

**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 the sewage system.

Do not allow it to enter soils or water channels.

Risk of formation of explosive fumes on the surface of the water.

## 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: FURALDEHYDES

UN 1199 Class: 6.1 3 Packaging group: II (D/E)

By sea (IMDG):

Technical name: FURALDEHYDES

UN 1199 Class: 6.1 3 Packaging group: II

By air (ICAI-IATA):

Technical name: Furaldehydes

UN 1199 Class: 6.1 3 Packaging group: II

Packaging instructions: CAO 611 PAX 609

## Regulatory information

## Other information



### Other precautionary statements

P271 Use only outdoors or in a well-ventilated area.

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

P281 Use personal protective equipment as required.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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.

P311 Call a POISON CENTER or doctor/physician.

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

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.

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.

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

R-phrase(s):	<b>R40</b> Limited evidence of a carcinogenic effect. <b>R36/37/38</b> Irritating to eyes, respiratory system and skin. <b>R23/25</b> Toxic by inhalation and if swallowed. <b>R21</b> Harmful in contact with skin.
S-phrase(s):	<b>S45</b> In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). <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.

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.