

Safety Data Sheet

According to Regulation (EC) 1907/2006



1956 Formamide

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

1.1 Identification of the substance or preparation

Name:

Formamide

Synonym:

Carbamaldehyde, Formic Acid Amide, Methanamide

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 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

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

Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Repr. 1B

Hazard Pictograms



Signal word

Danger

Hazard statements

H360D May damage the unborn child.

Precautionary statements

P308+P313 IF exposed or concerned: Get medical advice/attention.

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).

T Toxic

R61

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

3. Component Composition/Information

Name: Formamide

Formula: HCONH2 M.= 45,04 CAS [75-12-7]

EC number (EINECS): 200-842-0

EC index number: 616-052-00-8

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 sickness persists, seek medical assistance.

4.3 Contact with the skin:

Wash with plenty of soap and water. Remove contaminated clothing.

4.4 Eyes:

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

4.5 Swallowing:

Avoid vomiting. Risk of aspiration. Keep respiratory tracts clear. Seek immediate medical assistance.

5. Fire-fighting means**5.1 Suitable fire-extinguishing means:**

Atomized water. Carbon dioxide (CO₂). Dry powder. Foam.

5.2 Fire-fighting means which must NOT be used:

No specific data.

5.3 Special risks:

Flammable. Keep away from sources of ignition. In the event of fire, fumes may form: CO, NH₃, HCN, NO_x.

5.4 Protective equipment:

Suitable clothing and footwear. Self-contained breathing equipment.

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

6.1 Individual precautions:

Do not inhale the fumes.

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.

7. Handling and storage

7.1 Handling:

No special indications.

7.2 Storage:

Well sealed containers. Dry atmosphere. In well ventilated premises. Away from light. Restricted access, only authorized to technicians. Room temperature.

8. 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-ED: 10 ppm - 19 mg/m³,

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 complete protective equipment.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: liquid

Colour: Colourless to yellowish

Granulometry: N/A

Odour: Characteristic.

pH: 7,1 ((sol. 0,5 M in water))

Melting point/freezing point: 2,5 °C

Initial boiling point and boiling range: 210,5 °C

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 19 %(V) / 2,7 %(V)

Vapour pressure: 0,13 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) 1,132

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 500 °C

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

10. Stability and reactivity

10.1 Conditions which should be avoided:

High temperatures.

10.2 Matter which should be avoided:

Oxidant agents. Iodine. Pyridine. Sulphur trioxide. Water separating matters.

10.3 Hazardous decomposition products:

Ammonia. Carbon monoxide. Hydrogen cyanide.

10.4 Complementary information:

Heat sensitive. Hygroscopic.

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat : 5.577 mg/kg

LD50 skn rbt : 17.000 mg/kg

LC50 inh rat : 3900 ppm

11.2 Dangerous effects for health:

Upon contact with the skin: Serious injuries mutagenic effect. There are no definite objective conclusions regarding the carcinogenic effect of this substance.

12. Environmental information

12.1 Toxicity:

Fish (Leuciscus Idus) LC50 >4600 - <9300 mg/l (96h)

Crustaceans (Daphnia magna) EC50 >500 mg/l (48h)

Algae 1414 mg/l (72h)

Bacteria (Ps. putida) > 10000 mg/l (17h)

12.2 Persistence and Degradability :

Easily biodegradable product.

12.3 Bioaccumulative potential:

Non-bioaccumulable product.

12.4 Mobility in soil :

Repartition: $\log P(\text{oct}) = -0,82$

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other possible effects on the environment:

No interferences are to be anticipated in treatment plants if use correctly.

Hardly pollutant product.

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.

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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. Information concerning transport

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

The substance is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

16. Other information**Other precautionary statements**

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

R-phrase(s): **R61** May cause harm to the unborn child.

S-phrase(s): **S53** Avoid exposure - obtain special instructions before use.
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Version and revision date : 5 06.08.2012

Remplaced: 15.09.2011

In respect of the previous review, changes have been made to the following sections: 12, 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.