

Safety Data Sheet
According to Regulation (EC) 1907/2006



1346 Hexamethylenetetramine

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

1.1 Identification of the substance or preparation

Name:

Hexamethylenetetramine

Synonym:

1,3,5,7-Tetraazatricyclo [3.3.1.1^{3,7}]Decane, Hexamine, HMTA, Methenamine, Urotropine

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.

Flam. Sol. 2

Skin Sens. 1

Hazard Pictograms



Signal word

Warning

Hazard statements

H228 Flammable solid.

H317 May cause an allergic skin reaction.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

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

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

Xi Irritant

R43

F Highly flammable

R11

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

3. Component Composition/Information

Name: Hexamethylenetetramine

Formula: (CH₂)₆N₄ M.= 140,19 CAS [100-97-0]

EC number (EINECS): 202-905-8

EC index number: 612-101-00-2

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 to provide artificial respiration.

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. Seek medical assistance.

4.5 Swallowing:

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

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

Water. Carbon dioxide (CO₂). 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. May form explosive mixtures with the air. In the event of fire, toxic fumes may form: NO_x,HCN.

5.4 Protective equipment:

Suitable clothing and footwear.

6. Measures to be taken in the event of accidental spillage**6.1 Individual precautions:**

Do not inhale the dust.

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.

7. Handling and storage**7.1 Handling:**

No special indications.

7.2 Storage:

Well sealed containers. Dry atmosphere. Away from sources of ignition and heat. Room temperature.

8. Staff exposure/protection controls**8.1 Technical protective measures:**

No special indications.

8.2 Exposure limit control:

: Data not available.

8.3 Respiratory protection:

If dust forms, 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. Use suitable work clothing. Wash hands before breaks and when the job is done.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: solid
Colour: White
Granulometry: N/A
Odour: Characteristic.
pH: 8,5 - 9,5
Melting point/freezing point: 285 - 295 °C
Initial boiling point and boiling range:
N/A
Flash point: 250 °C
Flammability (solid, gas):
N/A
Upper/lower flammability or explosive limits:
N/A
Vapour pressure: N/A
Vapour density: N/A
Relative density: (20/4) 1,33
Solubility: in Soluble in water.
Partition coefficient: n-octanol/water:
N/A
Auto-ignition temperature:
N/A
Decomposition temperature: above 290 °C
Viscosity: N/A

10. Stability and reactivity

10.1 Conditions which should be avoided:

High temperatures.

10.2 Matter which should be avoided:

Strong oxidant agents. Peroxides. Halogenated hydrocarbons. (There is a risk of explosion).

10.3 Hazardous decomposition products:

Formaldehyde. Ammonia. Nitrous fumes. Hydrogen cyanide.

10.4 Complementary information:

No specific data.

11. Toxicological information

11.1 Acute toxicity:

: Data not available.

11.2 Dangerous effects for health:

No specific data on this product known with regard to effects of overdose in humans. If inhaled: Irritations to the mucosae, breathing difficulties. Can cause coughing Upon contact with the skin: Irritations to the skin and mucosae. Risk of sensitization Through contact with the eyes: irritations If swallowed in large quantities: nausea vomiting headaches gastro-intestinal disorders hepatic problems

12. Environmental information

12.1 Toxicity:

12.1.1 - EC50 test (mg/l):

Crustaceans (*Daphnia magna*) EC0 10000 mg/l

Classification: Toxic

Fish EC10 5000 mg/l

Classification: Very toxic

12.1.2. - Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Low

12.1.3. - Observations:

Acute ecotoxicity in the dumping area.

12.2 Persistence and Degradability :

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Biodegradable product.

12.3 Bioaccumulative potential:

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

Non-bioaccumulable product.

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other possible effects on the environment:

Do not allow it to enter soils or water channels.

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

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.

14. Information concerning transport

Overland (ADR):

Technical name: HEXAMETHYLENETE-TRAMINE

UN 1328 Class: 4.1 Packaging group: III (E)

By sea (IMDG):

Technical name: HEXAMETHYLENETE-TRAMINE

UN 1328 Class: 4.1 Packaging group: III

By air (ICAI-IATA):

Technical name: Hexamethylenetetramine

UN 1328 Class: 4.1 Packaging group: III

Packaging instructions: CAO 448 PAX 446

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. Other information

Other precautionary statements

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P321 Specific treatment (see on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use for extinction.

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): **R43** May cause sensitisation by skin contact.
R11 Highly flammable.

S-phrase(s): **S37** Wear suitable gloves.
S24 Avoid contact with skin.

Review number and date: 4 15.09.2011

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