



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

122058 **1,3-Dinitrobenzene** (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:

1,3-Dinitrobenzene

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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2. Identification of dangers

Very toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

"Restricted to professional users" as specified in Directive 97/56/EC.

3. Component Composition/Information

Name: 1,3-Dinitrobenzene

Formula: (NO₂)₂C₆H₄ M.=168,11 CAS [99-65-0]

EC number (EINECS): 202-776-8

EC index number: 609-004-00-2

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 immediately to provide artificial respiration. Seek immediate medical assistance.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing. Take the product out with cotton wool soaked in polyethylene-glycol 400.

4.4 Eyes:

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

4.5 Swallowing:

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

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

Carbon dioxide (CO₂). Foam. Dry powder. Water.

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. In the event of fire, toxic fumes may form: NO_x. Risk of explosion of dust.

5.4 Protective equipment:

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

6.1 Individual precautions:

Avoid contact with the skin, eyes or clothing. 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:

Handle under an extractor fan.

7.2 Storage:

Well sealed containers. In well ventilated premises. In a cool place. Keep away from flammable substances, sources of ignition and heat.

8. Staff exposure/protection controls

8.1 Technical protective measures:

8.2 Exposure limit control:

VLA-ED: 0,15 ppm or 1 mg/m³ (dermal resorption)

8.3 Respiratory protection:

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

8.4 Hand protection:

Use suitable gloves

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. Do not inhale the substance.

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:

Yellow solid.

Odour:

Characteristic.

Boiling point: 297°C

Melting point: 90°C

Solubility: Insoluble in water. Soluble in alcohol.

10. Stability and reactivity

10.1 Conditions which should be avoided:

High temperatures.

10.2 Matter which should be avoided:

Reducing agents. Oxidant agents. Strong bases.

10.3 Hazardous decomposition products:

Carbon monoxide. Carbon dioxide. Nitrogen oxides.

10.4 Complementary information:

Heat sensitive. Risk of explosion of dust.

11. Toxicological information

11.1 Acute toxicity:

LD₅₀ oral rat: 83 mg/kg

LDLo oral man: 28 mg/kg

11.2 Dangerous effects for health:

If inhaled: coughing, breathing difficulties, laryngitis.

Upon contact with the skin: Irritations to the skin and mucosae.

Through contact with the eyes: irritations.

If swallowed: nausea, vomiting.

Systemic effects: metahemoglobinemia with headaches, breathing difficulties, cyanosis.

Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Mobility:

12.2 Ecotoxicity:

12.1.1 - EC₅₀ test (mg/l):

Bacteria (Photobacterium phosphoreum) = 32 mg/l ; Classification: Extr. toxic

12.2.2 - Receptor medium:

Risk for the water environment = High

Risk for the land environment = High

12.2.3 - Observations:

Extremely toxic for any water and/or land organism.

12.3 Degradability:

12.3.1 - Test:-----

12.3.2 - Biotic degradation classification:

BOD₅/COD Biodegradability = Low, less than 1/10

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

12.3.4 - Observations:

Low biodegradability product.

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. Water-pollutant product. High 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.

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: DINITROBENCENOS SÓLIDOS

ONU 3443 Class: 6.1 Packaging group: II (D/E)

By sea (IMDG):

Technical name: DINITROBENCENOS SÓLIDOS

ONU 3443 Class: 6.1 Packaging group: II

By air (ICAI-IATA):

Technical name: Dinitrobenzenos sólidos

ONU 3443 Class: 6.1 Packaging group: II

Packaging instructions: CAO 615 PAX 613

15. Mandatory information

15.1 Labelling as per REACH

Symbols: The image shows two GHS hazard symbols side-by-side. The left symbol is labeled 'T+' and depicts a skull and crossbones. The right symbol is labeled 'N' and depicts a dead tree and a dead fish.

Danger indications: Very toxic Dangerous for the environment

Phrases R: 26/27/28-33-50/53 Very toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Phrases S: 28a-36/37-45-60-61 After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions-safety data sheet.

EC index number: 609-004-00-2

16. Other information

Review number and date:4 07.06.09

In respect of the previous review, changes have been made to the following sections: 14.

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.