



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

15A922 **4-Nitroaniline, 98% PS**

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

1.1 Identification of the substance or preparation

Name:

4-Nitroaniline

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.

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2. Identification of dangers

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

3. Component Composition/Information

Name: 4-Nitroaniline

Formula: $O_2NC_6H_4NH_2$ M.=138.13 CAS [100-01-6]

EC number (EINECS): 202-810-1

EC index number: 612-012-00-9

4. First aid

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Go 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. 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. Do not drink ethyl alcohol. Stomach lavage.

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

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

5.2 Fire-fighting means which must NOT be used:

5.3 Special risks:

Risk of explosion of dust. Combustible. Keep away from sources of ignition. In the event of fire, toxic fumes may form: NO_x. Do not allow extinguishing water into surface or underground water courses. Precipitate fumes formed with water.

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:

Avoid contact with the skin, eyes or clothing. Avoid sources of ignition. Do not smoke. Do not inhale the dust. Ensure adequate ventilation. Evacuate all non-essential personnel.

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:

Ensure good ventilation and renewal of the air in the premises. Handle under an extractor fan.

7.2 Storage:

Well sealed containers. Atmospheric temperature. Restricted access, only authorized to technicians.

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: 3 mg/m³

8.3 Respiratory protection:

If dust forms, use suitable respiratory protection. Filter A.

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 and face before breaks and when the job is done. Do not eat, drink or smoke in the workplace. 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:

Odourless.

Boiling point: 332°C

Melting point: 146°C

Flash point: 280°C

Self-ignition temperature: 510°C

Vapour pressure: 1 hPa (104°C)

Density (20/4): 1,44

Specific gravity: 0,630

Solubility: 0,8 g/l in water at 20°C

10. Stability and reactivity

10.1 Conditions which should be avoided:

High temperatures. Humidity.

10.2 Matter which should be avoided:

Organic compounds. Heat/ Concentrated sulfuric acid. Alkaline hydroxides.

10.3 Hazardous decomposition products:

Carbon monoxide. Carbon dioxide. Nitrogen oxides.

10.4 Complementary information:

Moisture sensitive. Heat sensitive. Risk of explosion of dust.

11. Toxicological information

11.1 Acute toxicity:

LD₅₀ oral rat: 750 mg/kg

LD₅₀ oral mouse: 810 mg/kg

LD₅₀ intraperitoneal mouse: 250 mg/kg

11.2 Dangerous effects for health:

If inhaled: Irritations to the mucosae, coughing, breathing difficulties.

Upon contact with the skin: irritations. Risk of cutaneous absorption. Causes dermatitis

Through contact with the eyes: irritations.

If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. Can cause tiredness, nausea, vomiting, coma.

Systemic effects: metahemoglobinemia with headaches, spasms, arrhythmia, breathing difficulties, hypotension, cyanosis, blood alterations.

Effect potentiated by ethanol.

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

12. Environmental information

12.1 Mobility:

Repartition: $\log P(\text{oct}) = 1,39$

12.2 Ecotoxicity:

12.1.1 - EC₅₀ test (mg/l):

Bacteria (Photobacterium phosphoreum) = 1,02 mg/l/30min ; Classification: Extr. toxic

Daphnia = 24 mg/l/24h ; Classification: Extr. toxic

12.2.2 - Receptor medium:

Risk for the water environment = High

Risk for the land environment = ----

12.2.3 - Observations:

Extremely toxic in water environments.

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:

Easily biodegradable product.

12.4 Accumulation:

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk = ----

12.4.3 - Observations:

Product with a low bioaccumulative potential.

12.5 Other possible effects on the environment:

Do not allow it to enter soils or water channels. Do not allow it to enter the sewage system. Water-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: NITROANILINAS (o-, m-, p-)

ONU 1661 Class: 6.1 Packaging group: II (D/E)

By sea (IMDG):

Technical name: NITROANILINAS (o-, m-, p-)

ONU 1661 Class: 6.1 Packaging group: II

By air (ICAI-IATA):


Technical name: Nitroanilinas

ONU 1661 Class: 6.1 Packaging group: II

Packaging instructions: CAO 615 PAX 613

15. Mandatory information

15.1 Labelling as per REACH

Symbols: 

Danger indications: Toxic

Phrases R: 23/24/25-33-52/53 Toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Phrases S: 28a-36/37-45-61 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). Avoid release to the environment. Refer to special instructions-safety data sheet.

EC index number: 612-012-00-9

16. Other information

Review number and date:1 07.06.09

In respect of the previous review, changes have been made to the following sections: 8. 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.