



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

162443 **2,4-Dinitrophenol, 98%** moistened with X33% of H₂O PS

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

1.1 Identification of the substance or preparation

Name:

2,4-Dinitrophenol moistened with X33% of H₂O

1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

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2. Identification of dangers

Toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects.
Very toxic to aquatic organisms.

3. Component Composition/Information

Name: 2,4-Dinitrophenol moistened with X33% of H₂O

Formula: C₆H₄N₂O₅ M.=184,10 CAS [51-28-5]

EC number (EINECS): 200-087-7

EC index number: 609-041-00-4

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 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 immediate medical assistance.

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

Carbon dioxide (CO₂). Foam. Dry powder.

5.2 Fire-fighting means which must NOT be used:

5.3 Special risks:

Flammable. Keep away from sources of ignition. In the event of fire, toxic fumes may form. Risk of explosion in the event of decomposition.

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.

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 carefully, striving to keep dampened, 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. Keep away from flammable substances, sources of ignition and heat. Atmospheric temperature. Restricted access, only authorized to technicians.

8. Staff exposure/protection controls

8.1 Technical protective measures:

8.2 Exposure limit control:

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:

Avoid the formation of dust. Remove contaminated clothing. Use complete protective equipment. Wash hands and face before breaks and when the job is done. Do not eat, drink or smoke in the workplace.

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.

Melting point: 114°C

Density (20/4): X1,68

Solubility: 5,6 g/l in water at 20°C

10. Stability and reactivity

10.1 Conditions which should be avoided:

Avoid knocks and friction.

10.2 Matter which should be avoided:

Metals. Metallic salts. Flammable substances. Reducing agents. Alkaline hydroxides. Ammonia.

10.3 Hazardous decomposition products:

10.4 Complementary information:

Heat sensitive. Explosive when dry.

11. Toxicological information

11.1 Acute toxicity:

LD₅₀ oral rat: 30 mg/kg

LDLo oral man: 36 mg/kg

LD₅₀ intraperitoneal mouse: 26 mg/kg

Rabbit skin sensitization test: 300 mg/4 W-I: light

11.2 Dangerous effects for health:

Upon contact with the skin: Risk of cutaneous absorption.

Through contact with the eyes: irritations slight.

If dust inhaled: Irritations to the mucosae slight. Risk of: Absorption.

If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract.

If swallowed in large quantities: nausea, vomiting, stomach pains. Risk of: Absorption.

Due to absorption: headaches, vertigo, fever.

If it is absorbed in large quantities: breathing difficulties, blood alterations, anxiety, spasms, hepatic problems, kidney problems, cardiovascular disorders.

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

12. Environmental information

12.1 Mobility:

Repartition: $\log P(\text{oct}) = 1,51$

12.2 Ecotoxicity:

12.2.1 - EC_{50} test (mg/l):

Bacteria (*Photobacterium phosphoreum*) = 45 mg/l ; Classification: Extr. toxic

Hydrological organisms. = 1 mg/l ; Classification: Extr. toxic

12.2.2 - Receptor medium:

Risk for the water environment = High

Risk for the land environment = Medium

12.2.3 - Observations:

High toxicity in water environment.

12.3 Degradability:

12.3.1 - Test:-----

12.3.2 - Biotic degradation classification:

BOD_5/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 soils or water channels. 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: DINITROFENOL HUMIDIFICADO con un mínimo del 15%, en peso, de agua

ONU 1320 Class: 4.1 Packaging group: I (E)

By sea (IMDG):

Technical name: DINITROFENOL HUMIDIFICADO con un mínimo del 15%, en peso, de agua

ONU 1320 Class: 4.1 Packaging group: I

By air (ICAI-IATA):

Technical name: Dinitrofenol humidificado

ONU 1320 Class: 4.1 Packaging group: I

Packaging instructions: CAO 412 PAX 416

15. Mandatory information

15.1 Labelling as per REACH

Symbols: 

Danger indications: Toxic Dangerous for the environment

Phrases R: 23/24/25-33-50 Toxic by inhalation, in contact with skin and if swallowed.

Danger of cumulative effects. Very toxic to aquatic organisms.

Phrases S: 28a-37-45-61 After contact with skin, wash immediately with plenty of water. Wear suitable 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: 609-041-00-4

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: 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.