



## Safety Data Sheet

According to Regulation (EC) 1907/2006



2443 2,4-Dinitrophenol \*moistened with ~ 33% of H2O

# 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 ~ 33% of H2O

**Synonym:**

a -Dinitrophenol

**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](mailto:product.safety@panreac.com)

#### 1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

## Identification of dangers

Classification of the substance or the mixture.

#### Classification Regulation (CE) n° 1272/2008.

Acute Tox. 3

Acute Tox. 3

Acute Tox. 3

Aquatic Acute 1

#### Hazard Pictograms



#### Signal word

Danger

#### Hazard statements

H331 Toxic if inhaled.

H311 Toxic in contact with skin.

H301 Toxic if swallowed.

H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400 Very toxic to aquatic life.

#### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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

**N** Dangerous for the environment R50

**T** Toxic R33

R23/24/25

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

# Component Composition/Information

Name: 2,4-Dinitrophenol \*moistened with ~ 33% of H<sub>2</sub>O

Formula: (NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>OH M.= 184,10 CAS [51-28-5]

EC number (EINECS): 200-087-7

EC index number: 609-041-00-4

## 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.

## Fire-fighting means

### 5.1 Suitable fire-extinguishing means:

Carbon dioxide (CO<sub>2</sub>). Foam. Dry powder.

### 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, toxic fumes may form. Risk of explosion in the event of decomposition.

### 5.4 Protective equipment:

Suitable clothing and footwear.

# 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.

# 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.

# 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:

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.

## Physical and chemical properties

Appearance: solid

Colour: Yellow

Granulometry: N/A

Odour: Odourless.

pH:

N/A

Melting point/freezing point: 114 °C

Initial boiling point and boiling range:

N/A

Flash point:

N/A

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) ~1,68

Solubility: 5,6 g/l in water 20 °C

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Viscosity: N/A

## 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:

No specific data.

### 10.4 Complementary information:

Heat sensitive. Explosive when dry.

## Toxicological information

- **Acute toxicity:**

LD L0 oral man : 36 mg/kg

LD L0 oral hmh : 4.300 mg/kg

LD50 oral rat : 30 mg/kg

LD50 ipr mus : 26 mg/kg

- **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.

## Environmental information

**12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Bacteria (Photobacterium phosphoreum) 45 mg/l

Classification:

Extr. toxic

Hydrological organisms. 1 mg/l

Classification:

Extr. toxic

12.1.2. - Receptor medium:

Risk for the water environment

High

Risk for the land environment

Medium

12.1.3. - Observations:

High toxicity in water environment.

**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:

Data not available.

**12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

Data not available.

**12.4 Mobility in soil :**

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

**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.

Water-pollutant product.

## 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.

## **Information concerning transport**

Overland (ADR):

Technical name: DINITROPHENOL, WETTED with not less than 15% water, by mass

UN 1320 Class: 4.1 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: I (E)

By sea (IMDG):

Technical name: DINITROPHENOL, WETTED with not less than 15% water, by mass

UN 1320 Class: 4.1 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: I

By air (ICAI-IATA):

Technical name: Dinitrophenol, wetted

UN 1320 Class: 4.1 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: I

Packaging instructions: CAO 451 PAX 451

## **Regulatory information**

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

## **Other information**



### Other precautionary statements

P273 Avoid release to the environment.

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P311 Call a POISON CENTER or doctor/physician.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment (see on this label).

P322 Specific measures (see on this label).

P330 Rinse mouth.

P361 Remove/Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

R-phrases(s):	<b>R50</b> Very toxic to aquatic organisms. <b>R33</b> Danger of cumulative effects. <b>R23/24/25</b> Toxic by inhalation, in contact with skin and if swallowed.
S-phrases(s):	<b>S61</b> Avoid release to the environment. Refer to special instructions/safety data sheets. <b>S45</b> In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). <b>S37</b> Wear suitable gloves. <b>S28a</b> After contact with skin, wash immediately with plenty of water.

Review number and date: 4 15.09.2011

Date published: 15.09.2011

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.