



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



2442 1-Chloro-2,4-Dinitrobenzene

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

1.1 Identification of the substance or preparation

Name:

1-Chloro-2.4-Dinitrobenzene

1.2 Synonym:

1,3-Dinitro-4-Chlorobenzene, 2,4-Dinitro-1-Chlorobenzene, 4-Chloro-1,3-Dinitrobenzene, DNCB

1.3 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.4 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

Emergencies:

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) no 1272/2008.

Acute Tox. 3

Acute Tox. 3

Acute Tox. 3

Aquatic Acute 1

Aquatic Chronic 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>.

H410 Very toxic to aquatic life with long lasting effects.

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 no 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).

R50/53

N Dangerous for the environment

R33

T Toxic

R23/24/25

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

Component Composition/Information

Name: 1-Chloro-2,4-Dinitrobenzene

Formula: (NO2)2C6H3Cl M.= 202,55 CAS [97-00-7]

EC number (EINECS): 202-551-4 EC index number: 610-003-00-4

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:

Water. Foam.

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: NOx,Cl2,HCl.

5.4 Protective equipment:

Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

Do not inhale the dust. 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 dry 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.In well ventilated premises.Atmospheric temperature.Restricted access, only authorized to technicians.Dry atmosphere.

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:

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 and face before breaks and when the job is done.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

Physical and chemical properties

Appearance: solid

Colour: slightly yellow

Granulometry:

Odour: Characteristic.

pH:

Melting point/freezing point: 53 °C

Initial boiling point and boiling range: 315 °C

Flash point: 194 °C

Flammability (solid, gas):

Upper/lower flammability or explosive limits: 22 %(V) / 1,9 %(V)

Vapour pressure: 1 hPa (106 °C)

Vapour density:

Relative density: (75/4) 1,4982

Solubility: Insoluble in water

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Stability and reactivity

10.1 Conditions which should be avoided:

High temperatures. Risk of explosion in the event of decomposition.

10.2 Matter which should be avoided:

Alkaline metals. Alcohols. Nitrogen oxides. Nitrogen organic compounds. Chlorates. Nitric acid. Water. Organic compounds. Phenols. Aluminium halogens.

10.3 Hazardous decomposition products:

Nitrous fumes. Chlorine. Hydrogen chloride.

10.4 Complementary information:

Toxicological information

Acute toxicity:

LD50 oral rat : 780 mg/kg LD50 skn rbt : 130 mg/kg LD50 ipr rat : 280 mg/kg

Dangerous effects for health:

If inhaled: Irritations to the mucosae breathing difficulties Absorption Upon contact with the skin: irritations Risk of cutaneous absorption. Can cause metahemoglobinemia with headaches If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. Systemic effects: sensitization metahemoglobinemia with headaches arrhythmia hypotension breathing difficulties spasms cyanosis

Environmental information

12.1 Mobility:

12.2 Ecotoxicity:

12.1.1 - EC50 test (mg/l):

12.2.2 - Receptor medium:

Risk for the water environment

Risk for the land environment

12.2.3 - Observations:

Extremely toxic in water supplies and soils. Ecotoxicity acute and chronic.

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:

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.

Product insoluble in water.

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: CHLORODINITROBENZENES, SOLID

UN 3441 Class: 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: II (D/E)

By sea (IMDG):

Technical name: CHLORODINITROBENZENES, SOLID

UN 3441 Class: 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: II

By air (ICAI-IATA):

Technical name: Chlorodinitrobenzenes, solid

UN 3441 Class: 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: II

Packaging instructions: CAO 615 PAX 613

Regulatory information

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-phrase(s):	R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in
	the aquatic environment.
	R33 Danger of cumulative effects.
	R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
S-phrase(s):	S60 This material and its container must be disposed of as hazardous waste.
	S45 In case of accident or if you feel unwell, seek medical advice immediately
	(show the lable where possible).
	S36/37 Wear suitable protective clothing and gloves.
	S28a After contact with skin, wash immediately with plenty of water.
	S61 Avoid release to the environment. Refer to special instructions/safety data
	sheets.

Review number and date: 3 3.11.10

Date published: 3.11.10

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.