

Deepak Nitrite Limited

Material Safety Data Sheet

Para Nitro Chloro Benzene

1 Product And Company Identification :

Product Name : **Para Nitro Chloro Benzene**
 CAS No. : 100-00-5
 Supplier : Deepak Nitrite Ltd.
 National Games Road, Opposite Golf Course,
 Yerawada, Pune – 411 006. (India).
 Tel No. : +91 – 20 – 26689265
 Telefax : +91 – 20 – 26685448
 E – mail : export@deepaknitrite.com
 Emergency tel. No : +91 – 0265 – 2840645, 2840646, 2840647

2 Composition / Information On Ingredients :

Hazardous components : Para Nitro Chloro Benzene
 Synonyms : 1-Chloro-4-nitrobenzene; PNCB; 4-Nitrochlorobenzene
 Chemical formula : $C_6H_4ClNO_2$
 Molecular weight : 157.56
 CAS No. : 100-00-5
 UN No. : 1578
 EINECS No. : 202-809-6
 Hazard symbols : T – Toxic
 Risk phrases : R22, R24, R52/53
 Safety phrases : S28A , S36/37/39, S38, S45, S60

3 Hazards Identification :

Potential Health Effects:

Toxic by inhalation, in contact with skin and if swallowed.

Eye: Causes eye irritation. Causes redness and pain.

Skin: Causes skin irritation. Toxic in contact with skin. If absorbed, may cause symptoms similar to those for ingestion.

Ingestion: Poison by ingestion. May cause effects similar to those for Inhalation exposure.

Inhalation: Causes cyanosis characterized by bluish-colored skin. Causes Respiratory tract irritation. May cause anoxia, characterized by weakness, headache, dizziness, confusion, cyanosis, weak and Irregular heart beat, collapse, unconsciousness, convulsions, coma and death. Toxic if inhaled.

Chronic: Prolonged or repeated skin contact may cause sensitization dermatitis and possible destruction and/or ulceration. May cause liver and kidney damage.

Deepak Nitrite Limited

4 First Aid Measures :

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately.
Skin: Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion: Get medical aid immediately. Wash mouth out with water.
Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Notes to Physician: Treat symptomatically and supportively.

5 Fire Fighting Measures :

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Extinguishing Media:
In case of fire use water spray, dry chemical, carbon dioxide, or chemical foam.
Autoignition Temperature: 510 °C (950 °F) ,
Flash Point: 127 °C (260.6 °F)
NFPA Rating: Health=3, Flammability=1, Reactivity=0
Explosion Limits: Not available.

6 Accidental Release Measures :

Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:
Vacuum or sweep up material and place into a suitable disposal container.

7 Handling & Storage :

Handling:
Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.
Storage:
Store in a cool, dry place. Store in a tightly closed container.

8 Exposure Control / Personal Protection :

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.
Personal Protective Equipment.
Eyes: Wear safety glasses and chemical goggles if splashing is possible. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Deepak Nitrite Limited

9 Physical And Chemical Properties :

Colour	: Yellow mass.
Odour	: Not available
pH	: Not available
Boiling Point/range	: 242 °C @ 760.00mm Hg
Freezing/Melting point	: 83 - 84 deg C
Flash Point	: 127 deg C (260.60 deg F)
Explosion properties	: Not available
Density	: 1.298 g/cm ³
Solubility	: 0.3 g/l water (20fC)

10 Stability And Reactivity :

Chemical Stability: Stable under normal temperatures and pressures.
 Conditions to Avoid: Incompatible materials.
 Incompatibilities with Other Materials: Oxidizing agents.
 Hazardous Decomposition Products: Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide.
 Hazardous Polymerization: Will not occur.

11 Toxicological Information :

Acute toxicity	: Not available
Irritation of the eyes	: Not available
Irritation of the skin	: Not available
RTECS#	: CAS# 100-00-5: CZ1050000
Carcinogenicity	: Carcinogenicity: 1-Chloro-4-nitrobenzene - ACGIH: A3 - Animal Carcinogen , NIOSH: occupational carcinogen IARC: Group 3 carcinogen , Oral, rat: LD50 = 420 mg/kg; Skin, rat: LD50 = 16 gm/kg.
Special properties	: Not available

12 Ecological Information :

Acute fish toxicity Not available
 For further information, contact Acros Organics.

13 Disposal Considerations :

Dispose of in a manner consistent with federal, state, and local regulations.

14 Transport Information :

UN No. : 1578	Hazard Class : 6.1	Packing Group : II
Proper shipping name : Chloronitrobenzene		
Declaration for land shipment : Not available		
Declaration for sea shipment : Not available		
Declaration for air shipment (IATA) : Not available		
Packing instruction, passenger : Not available		
Packing instruction, cargo : Not available		

Deepak Nitrite Limited

15 Regulatory Information :

Symbols : T , Toxic

Contains : Para Nitro chlorobenzene

Hazard Symbols: T

Risk Phrases:

R 23/24/25 Toxic by inhalation, in contact with skin And if swallowed.

Safety Phrases:

S 36/37/39 Wear suitable protective clothing, gloves And eye/face protection.

S 38 In case of insufficient ventilation, wear Suitable respiratory equipment.

S 45 In case of accident or if you feel unwell, seek Medical advice immediately (show the label where Possible).

S 28A After contact with skin, wash immediately with Plenty of water.

WGK (Water Danger/Protection) : CAS# 100-00-5: 2

Exposure Limits

OEL-AUSTRALIA:TWA 0.1 ppm (0.6 mg/m³); OEL-GERMANY:TWA 1 mg/m³;Skin

US FEDERAL / TSCA / TSCA inventory.

16 Other Information:

DISCLAIMER : Deepak Nitrite Ltd. provides the information contained herein in good faith but makes no representation as to comprehensiveness or accuracy. This document is only as a guide to a properly trained person, for the appropriate precautions and handling of the material. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose. The data does not signify any warranty with regard to the product's properties.