



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : D41317
Product Name : **m-DINITRO BENZENE (1,3 DINITRO BENZENE)**

Manufacturer / supplier identification

Company : NICE CHEMICALS PVT.LTD. , Cochin , India
Tel - 0484 2800212 , 2802755

Contact for Information : Tel . No. – 0484 2802536 Fax : 0484 2802483
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms

m-DINITRO BENZENE

CAS-No : 99-65-0 EC –No. 202-776-8
Molar mass : 168.12 EC-Index No. 609-004-00-2
Molecular formula : C₆H₄N₂O₄

3. HAZARDS IDENTIFICATION

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

4. FIRST AID MEASURES

After eye contact : Rinse out with plenty water with the eyelid held wide open.
Summon eye specialist.



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After inhalation : fresh air. If necessary, apply mouth to mouth resuscitation or Mechanical ventilation. Summon doctor.
After skin contact : wash off with plenty of water. Dab with polyethylene glycol 400. Remove contaminated clothing.
After swallowing : If victim is still conscious make him drink plenty of water , induce Vomiting, administer activated charcoal. Immediately summon doctor.
If breathing stops : Mouth to mouth resuscitation or mechanical ventilation. Immediately summon doctor.

5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : CO₂, foam, powder.

Special risks : Combustible. Development of hazardous combustion gases or vapours possible in the event of fire. The following may develop in event of fire: Nitrous gases.

Special protective equipment for fire fighting : Do not stay in dangerous zone without Suitable chemical protection clothing and self-contained breathing apparatus.

Other information : Avoid percussion and friction.

6. ACCIDENTAL RELEASE MEASURES

Person related precautionary measures: Avoid generation of dusts; do not inhale dusts.

Environmental protection measures : Do not allow to enter sewerage system.

Procedures for cleaning/absorption : Take up carefully. Forward for disposal.

Clean up affected area.



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7. HANDLING AND STORAGE

Handling : Avoid generation of dusts.

Storage : Tightly closed in a well ventilated place.

Storage temperature : No restrictions. Accessible only for authorized persons.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : required when dusts are generated.

Eye protection : required

Hand protection : required

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Industrial hygiene : Immediately change contaminated clothing. Application of skin protective barrier cream recommended. Wash hands and face after working with substance. Under no circumstances eat or drink at work place.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : solid
Colour : greenish yellow
Odour : characteristic
PH value : Not available
Melting temperature : 90 °C



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Boiling temperature : 297 °C
Ignition temperature : Not available.
Flash point : 150°C
Explosion limits Lower : Not available.
Upper : Not available.
Vapour pressure (133°C) : 4 hPa
Relative vapour density : Not available
Density (20°C) : 1.60 g/cm³
Solubility in water(13°C) : ~0.05 g/l
water (100°C) : 1.9 g/l
log P(oct) : 1.49

10. STABILITY AND REACTIVITY

Conditions to be avoided : Heating
Substance to be avoided : Fluorine, alkali metals, oxidizing agent,
nitric acid
Hazardous decomposition products : In the event of fire: Nitrous gases.
Further information : Heat sensitive, sensitive to shock, combustible.

11. TOXICOLOGICAL INFORMATION

Acute toxicity : LD₅₀ (oral,rat): 59.5 mg/kg
Sub acute to chronic toxicity : The carcinogenic potential requires further clarification
Further toxicological information :
After skin contact : Danger of skin absorption.
After inhalation : Absorption.
After swallowing : Rapid absorption.
After absorption : Methaemoglobinaemia with headache, cardiac arrhythmia,
drop in blood pressure, dyspnoea and spasms, key symptom:
cyanosis, nausea, vomiting, paralysis symptoms,
unconsciousness collapse.



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After long term exposure to the chemical : Changes in the blood picture, cyanosis
latency time until onset of action. .

Further data : The product should be handled with the care usual when dealing with
Chemicals

12. ECOLOGICAL INFORMATION

Biological degradation : Not degradable in water

Behaviour in environmental compartments : . Distribution: log P(oct)1.49;

Evaluation number (FRG) (bacteria):4.9;Evaluation number (FRG) (fish):5.0;

E valuation number (FRG) (mammal): 5; long bioaccumulation potential.

Ecotoxic effects: Biological effects : Toxic to aquatic organisms.

Fish toxicity : L.idus LC₅₀: 10mg/l ; P.promelas LC₅₀:12.7mg/l

Daphnia toxicity: Daphnia magna LC₅₀: 19 mg/l ;

Bacterial toxicity : Ps.Putida EC₀:14 mg/l

Algae toxicity : Sc.quadricauda EC₀: 0.70 mg/l

Further ecological data : Do not allow to enter water, waste water, or soil

13. DISPOSAL METHOD

Product

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC Member countries through that you corresponding laws and regulations. We recommend contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.



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14. TRANSPORT INFORMATION

Transport over land ADR/RID and GGVS/GGVE

GGVS/GGVE class : 6.1 Number and letter :12b

ADR/RID class : 6.1 Number and letter :12b

Name of material : 1597 DINITRO BENZENE

River transport ADN/ADNR : Not examined.

Sea transport IMDG

IMDG class : 6.1 UN No.1597 Packaging group : II

Ems : 6.1-.03 MFAG : 335

Correct technical name : 1,3-DINITRO BENZENE

Air transport ICAQ-TI and IATA-DGR

ICAQ/IATA class : 6.1 UN/ID No. : 1597 Packaging group : II

Correct technical name : DINITRO BENZENE

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : T+ Very toxic
 N Dangerous for the environment

R-phrases : 26/27/28-33-50/53 very toxic by inhalation , in contact with skin and if swallowed. Danger of cumulative effects. Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.



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S-phrases : 28-36/37-45-60-61 After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing and gloves. In case of accidents, or if you feel unwell, seek medical advice immediately.

Water pollution class : 3 (Highly polluting substance)

16. OTHER INFORMATION

The information contained here in is based on the present state of our knowledge.

It characterizes the product with regard to the appropriate safety precautions.

It does not represent a guarantee of the properties of the product.
