OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

META CHLORO NITRO BENZENE 99% (MNCB)

(1-Chloro-3-nitrobenzene)

MSDS CAS: 121-73-3

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: META CHLORO NITRO BENZENE
CAS#: 121-73-3
Synonym: m-Chloronitrobenzene, MNCB, 1-Chloro-3-nitrobenzene
Chemical Name: Not Available.
Chemical Formula: $C_6H_4CINO_2$

Brand : OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification:

OXFORD LAB FINE CHEM LLP
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight	Hazardous
META CHLORO NITRO BENZENE	121-73-3	100	Yes

Section 3: Hazards Identification

Risk advice to man and the environment:
Harmful if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 4: First Aid Measures

General advice:
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled:
If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact:
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed:
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5: Fire and Explosion Data

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire- fighters:
Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental Release Measures

Personal precautions:

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up:

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Handling:

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Section 8: Exposure Controls/Personal Protection

Personal protective equipment

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Face shield and safety glasses.

Eye protection : Face shield and safety glasses.

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9: Physical and Chemical Properties

Appearance

Form	**: Crystalline.**
Colour	**: Light yellow.**

Safety data

pH	**: No Data Available.**
Melting point	**: 43 - 47 °C - lit.**
Molecular Weight	**: 157,55 g/mole.**
Boiling point	**: 236 °C - lit.**
Flash point	**: 115 °C - closed cup**
Ignition temperature	**: 260 °C**
Lower explosion limit	**: No Data Available.**
Upper explosion limit	**: No Data Available.**
Density	**: 1,534 g/mL at 25 °C**
Water solubility	**: No data available.**

Section 10: Stability and Reactivity Data

Storage stability:
Stable under recommended storage conditions.

Materials to avoid:
Strong oxidizing agents, Strong bases, Strong reducing agents.

Hazardous decomposition products:
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas.

Section 11: Toxicological Information

Acute toxicity : LD50 Oral - rat - 420 mg/kg

Irritation and corrosion : No data available.

Sensitisation : No data available.

Section 11: Toxicological Information (Continued)

Chronic exposure:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (1-Chloro-3-nitrobenzene) 3 - Group 3: Not classifiable as to its carcinogenicity to humans (1-Chloro-3-nitrobenzene)

Signs and Symptoms of Exposure:

May cause cyanosis., Nausea, Dizziness, Headache, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion Harmful if swallowed.

Section 12: Ecological Information

Elimination information (persistence and degradability):

Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 36 d
Bioconcentration factor (BCF): 91

Ecotoxicity effects:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 18 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates.
EC50 - Daphnia magna (Water flea) - 4,5 mg/l - 48 h.

Further information on ecology:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 13: Disposal Considerations

Product:

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

Land transport (ADR-RID)
Proper shipping name : CHLORONITROBENZENES, SOLID.
UN N° : 1578
H.I. nr : 60
ADR – Class : 6.1
Labelling – Transport : 6.1 : Toxic substances.
ADR – Group : II

Sea transport (IMDG) [English only]
Proper shipping name : CHLORONITROBENZENES, SOLID.
UN N° : 1578
IMO-IMDG - Class or division : 6.1 : Toxic substances.
IMO-IMDG - Packing group :II

Air transport (ICAO-IATA) [English only]
Proper shipping name : CHLORONITROBENZENES, SOLID.
UN N° : 1578
IATA - Class or division : 6.1 : Toxic substances.
IATA - Packing group : II

Section 15: Other Regulatory Information

Labelling according to EC Directives
N Dangerous for the environment
R-phrase(s)
R22 Harmful if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s):
S22 Do not breathe dust.
S24/25 Avoid contact with skin and eyes.
S60 This material and its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

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Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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