



Alpha Chemika



ISO 9001 QUALITY SYSTEM CERTIFIED ORGANIZATION

MATERIAL SAFETY DATA SHEET

MSDS

Savgan Heights : 102 ,B Wing : R.T.D. Lane ,Andheri (West) Mumbai - 400053 , INDIA

Section 1 - Chemical Product and Company Identification

Product Name : 1-CHLORO-3-NITROBENZENE

Synonyms: m-Chloronitrobenzene, MNCB

CAS No.: 121-73-3

Molecular Weight: 157,55

Chemical Formula: C₆H₄ClNO₂

Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
1-chloro-3-nitrobenzene	121-73-3	98- 100%	Yes

Section 3 - Hazardous 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 Fighting Measures

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

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

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.

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

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 (NO_x), 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

Chronic exposure

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

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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.

Additional Information

RTECS: CZ0940000

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

ADR/RID

UN-Number: 1578 Class: 6.1 Packing group: II

Proper shipping name: CHLORONITROBENZENES, SOLID

IMDG

UN-Number: 1578 Class: 6.1 Packing group: II EMS-No: F-A, S-A

Proper shipping name: CHLORONITROBENZENES, SOLID

Marine pollutant: No

IATA

UN-Number: 1578 Class: 6.1 Packing group: II

Proper shipping name: Chloronitrobenzenes, solid

Section 15 - Regulatory Information

Labelling according to EC Directives

Hazard symbols

Xn Harmful

N Dangerous for the environment

R-phrases)

R22 Harmful if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases)

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.

Section 16 - Additional Information

Not Available