



AGR Enterprises

Material Safety Data Sheet

Meta Nitro Chloro Benzene MSDS

1. Product Identification

MSDS Name: M-Nitro chloro benzene
Synonyms: M-Chloronitrobenzene; 1-Chloro-3-Nitrobenzene
Molecular Formula: C₆H₄ClNO₂
Molecular Weight: 157.56

2. Physical and Chemical Properties

Physical State: Crystalline powder
Appearance: tan
Odor: None reported.
PH: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: 236 deg C @ 760.00mm Hg
Freezing/Melting Point: 42 - 44 deg C
Decomposition Temperature: > 300 deg C
Solubility: soluble in most common organic solvents
Specific Gravity/Density: 1.5340g/cm³

3. Hazards Identification

Appearance: tan crystalline powder.
Warning! Harmful if swallowed. May cause eye and skin irritation. May cause central nervous system effects.
Potential Health Effects
Eye: Causes eye irritation.
Skin: Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.
Ingestion: Harmful if swallowed. Aspiration of material into the lungs may cause chemical pneumonitis.
Inhalation: May cause effects similar to those described for ingestion.
Chronic: May cause liver and kidney damage. May cause fatigue, dizziness, headache, insomnia and weight loss.

4. First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

5. Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use agent most appropriate to extinguish fire.

Flash Point: 103 deg C (217.40 deg F)

Autoignition Temperature: > 450 deg C (> 842.00 deg F)

Explosion Limits, Lower: Not available.

Upper: Not available

6. Accidental Release Measures

General Information: Use proper personal protective equipment

Spills/Leaks: Clean up spills immediately, Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation

7. Handling and Storage

Handling: Wash thoroughly after handling. Minimize dust generation and accumulation.

Storage: Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. Exposure Controls/Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin

9. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation, excess heat

10. Other Information

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 420 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

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

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Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

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

Ingestion Harmful if swallowed.

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

Eyes May cause eye irritation.

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.

12. Ecological Information

Ecotoxicity: No data available. No information available.

Environmental: Terrestrial: M-Chloronitrobenzene does not contain a readily hydrolyzable functional group. Therefore, hydrolysis of m-chloronitrobenzene in soil is not significant. Aquatic: M-Chloronitrobenzene does not contain any readily hydrolyzable functional groups and is unlikely to undergo hydrolysis as a major fate

13. Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information

UN number

ADR/RID: 1578 IMDG: 1578 IATA: 1578

UN proper shipping name

ADR/RID: CHLORONITROBENZENES, SOLID

IMDG: CHLORONITROBENZENES, SOLID

IATA: Chloronitrobenzenes, solid

Transport hazard class(es)

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

Packaging group

ADR/RID: II IMDG: II IATA: II

Environmental hazards

ADR/RID: yes IMDG Marine Pollutant: yes IATA: no

Special precautions for user

15. Regulatory Information

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Clean Air Act:

This material does not contain any hazardous air pollutants.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

Safety Phrases:

Wear suitable protective clothing, gloves and eye/face protection.

In case of insufficient ventilation, wear suitable respiratory equipment.

In case of accident or if you feel unwell, seek medical advice immediately after contact with skin, wash immediately with plenty of water.

16. Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall AGR Enterprises be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AGR Enterprises has been advised of the possibility of such damages.