



Specialized in chemicals

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Material Safety Data Sheet

3-Nitrochlorobenzene

Section 1: Chemical Product and Company Identification

Molecular formula: C₆H₄ClNO₂

CAS Nr: 121-73-3

EINECS: 204-496-1

Molecular weight:157.55

Synonyms: 1-chloro-3-nitro-benzen;

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
3-Nitrochlorobenzene	121-73-3	100

Section 3: Hazards Identification

Emergency Overview

OSHA Hazards

Toxic by ingestion

GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed.

H400 Very toxic to aquatic life.

Precautionary statement(s)

P273 Avoid release to the environment.

HMIS Classification	
Health hazard:	2
Flammability:	1
Physical hazards:	0
NFPA Rating	
Health hazard:	2
Fire:	1
Reactivity Hazard:	0
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	Toxic if swallowed.

Section 4: First Aid Measures

General advice	
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.	
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 and materials for containment and cleaning up	
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.	

Section 7: Handling and Storage

Precautions for safe handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Section 8: Exposure Controls/Personal Protection

Contains no substances with occupational exposure limit values.

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

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 (109 - 117 ° F) - lit.
Boiling point 236 ° C (457 ° F) - lit.
Flash point 115 ° C (239 ° F) - closed cup
Ignition temperature 260 ° C (500 ° F)
Lower explosion limit no data available
Upper explosion limit no data available
Density 1.534 g/cm³ at 25 ° C (77 ° F)
Water solubility no data available

Section 10: Stability and Reactivity Data

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

no data available

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

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)

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

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure (GHS)

no data available

Specific target organ toxicity - repeated exposure (GHS)

no data available

Aspiration hazard

no data available

Potential health effects

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

Ingestion Toxic 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.

Additional Information

RTECS: CZ0940000

Section 12: Ecological Information

Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 18 mg/l - 96.0 h

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 4.5 mg/l - 48 h

and other aquatic invertebrates.

Persistence and degradability

Bioaccumulative potential

Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 36 d

Bioconcentration factor (BCF): 91

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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

DOT (US)

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

Proper shipping name: Chloronitrobenzenes, solid

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

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

Proper shipping name: CHLORONITROBENZENES, SOLID

Marine pollutant: No

<p>IATA UN-Number: 1578 Class: 6.1 Packing group: II Proper shipping name: Chloronitrobenzenes, solid</p>
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Section 15: Other Regulatory Information

<p>OSHA Hazards Toxic by ingestion</p> <p>DSL Status This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.</p> <table border="0"> <tr> <td>1-Chloro-3-nitrobenzene</td> <td>CAS-No.</td> <td></td> </tr> <tr> <td></td> <td>121-73-3</td> <td></td> </tr> </table> <p>SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.</p> <p>SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.</p> <p>SARA 311/312 Hazards Acute Health Hazard</p> <p>Massachusetts Right To Know Components</p> <table border="0"> <tr> <td>1-Chloro-3-nitrobenzene</td> <td>CAS-No.</td> <td>Revision Date</td> </tr> <tr> <td></td> <td>121-73-3</td> <td>1993-04-24</td> </tr> </table> <p>Pennsylvania Right To Know Components</p> <table border="0"> <tr> <td>1-Chloro-3-nitrobenzene</td> <td>CAS-No.</td> <td>Revision Date</td> </tr> <tr> <td></td> <td>121-73-3</td> <td>1993-04-24</td> </tr> </table> <p>New Jersey Right To Know Components</p> <table border="0"> <tr> <td>1-Chloro-3-nitrobenzene</td> <td>CAS-No.</td> <td>Revision Date</td> </tr> <tr> <td></td> <td>121-73-3</td> <td>1993-04-24</td> </tr> </table> <p>California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.</p>	1-Chloro-3-nitrobenzene	CAS-No.			121-73-3		1-Chloro-3-nitrobenzene	CAS-No.	Revision Date		121-73-3	1993-04-24	1-Chloro-3-nitrobenzene	CAS-No.	Revision Date		121-73-3	1993-04-24	1-Chloro-3-nitrobenzene	CAS-No.	Revision Date		121-73-3	1993-04-24
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Section 16: Other Information

<p>References: Not available. Other Special Considerations: Not available. Created: 10/09/2005 05:14 PM Last Updated: 05/21/2013 12:00 PM</p> <p><i>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 we are 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 we have been advised of the possibility of such damages.</i></p>
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