

ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1
Revision Date: 2024-01-16
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : 1-Chloro-3-nitrobenzene solution
Product Number : N117376
Brand : aladdin
CAS-No. : 121-73-3(methanol)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION
Address : 14078 Meridian Parkway,
Riverside, CA. 92518
Telephone : +1 (833) 552-7181
Fax : no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300
CHEMTREC®, Outside the USA :

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Dermal (Category 3), H311

Short-term (acute) aquatic hazard (Category 2), H401

Long-term (chronic) aquatic hazard (Category 2), H411

Flammable liquid (Class 2), H225

Acute toxicity, oral (Class 3), H301

Acute toxicity, inhalation (Class 3), H331

Specific target organ systemic toxicity (single exposure) (Category 1), eyes, central nervous system, H370

2.2 GHS Label elements, including precautionary statements

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Pictogram



Danger

Signal word

Hazard statement(s)

H225 Highly Flammable liquid and vapor
 H302 Harmful if swallowed
 H370 Causes damage to organs
 H372 Causes damage to organs through prolonged or repeated exposure
 H401 Toxic to aquatic life
 H411 Toxic to aquatic life with long lasting effects
 H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled

Precautionary statement(s)

P201 Obtain special instructions before use.
 P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.
 P202 Do not handle until all safety precautions have been read and understood.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof [electrical/ventilating/lighting/...] equipment.
 P242 Use only non-sparking tools.
 P260 Do not breathe dust/fume/gas/mist/vapors/spray.
 P264 Wash hands [and ...] thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P330 Rinse mouth.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
 P301+P312 IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.
 P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
 P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor/...
 P337+P313 IF eye irritation persists: Get medical advice/attention.
 P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
 P370+P378 In case of fire: Use ... to extinguish.
 P405 Store locked up.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container to an approved waste disposal plant.

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2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Synonyms	: m-Nitrochlorobenzene
Formula	: no data available
Molecular weight	: no data available

Component	Classification	Concentration
Methanol		
CAS-No. : 67-56-1	Flam. Liq. 2; Acute Tox. 3; STOT SE 1; H225, H301, H331, H311, H370	
EC-No. :	Concentration limits: >= 10 %: STOT SE 1, H370; 3 - < 10 %: STOT SE 2, H371	
m-Nitrochlorobenzene Standard		
CAS-No. : 121-73-3	Acute toxicity Category 4; Acute toxicity Category 3; Short-term (acute)	
EC-No. : 204-496-1	aquatic hazard Category 2; Longterm (chronic) aquatic hazard Category 2; H302, H311, H401, H411	

SECTION 4: First aid measures

4.1 Description of 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

Remove/take off all contaminated clothing immediately. Wash gently with plenty of soap and water. Call the detoxification center/doctor.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

no data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 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.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures: Treat in a well-ventilated place. Wear suitable protective equipment. Prevent smoke generation. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take measures to prevent static electricity from accumulating. Use explosion-proof equipment. Wash hands and face thoroughly after treatment.

Note: If possible, use a closed system. If vapor or aerosol is generated, use ventilation and local exhaust. Handling precautions: Avoid contact with all parts!

7.2 Conditions for safe storage, including any incompatibilities

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Keep container tightly closed. Store in a cool, dark, well-ventilated place. The storage place must be locked. Store away from incompatible materials such as oxidizers. Storage temperature room temp

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection,use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

Control of environmental exposure

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|--------------------|-------------------|
| a) Appearance | no data available |
| b) Odour | no data available |
| c) Odour Threshold | no data available |

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d) pH	no data available
e) Melting point/freezing point	46°C
f) Initial boiling point and boiling range	236°C
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	1
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Sparks, open flames, static electricity

10.5 Incompatible materials

Oxidizing agent, acid chloride, acid anhydride, reducing agent

10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide

SECTION 11: Toxicological information

Phone: +1 (833) 552-7181 Email: QualityAssurance@aladdinsci.com Website: <https://www.aladdinsci.com/>

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11.1 Information on toxicological effects

Acute toxicity

ihl-hmn TClO:86000 mg/m³

ihl-rat LC50:64000 ppm/4H

orl-hmn LDLo:143 mg/kg

orl-rat LD50:5600 mg/kg

skn-rbt LD50:15800 mg/kg

Skin corrosion/irritation

skn-rbt 20 mg/24H MOD

Serious eye damage/eye irritation

eye-rbt 100 mg/24H MOD

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

dni-hmn-lym 300 mmol/L mmo-mus-lym 7900 mg/L (+S9) mmo-smc 12 pph (-S9)

Carcinogenicity

no data available

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

Additional Information

SECTION 12: Ecological information

12.1 Toxicity

Fish: 48h LC50: 1400 mg/L (*Oryzias latipes*)

96h LC50: 20100 mg/L (*Oncorhynchus mykiss*)

Crustaceans: 48h EC50: 24500 mg/L (*Daphnia magna*)

Algae: Not available

Residuality/degradability: 92% (by BOD), 100% (by GC), 99% (by TOC)

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Bioaccumulation Potential (BCF): <10

Mobility in soil

Log Pow:: -0.82/-0.66

Soil absorption coefficient (Koc): 2.75

Henry's Law

constant(PaM 3

/mol):

0.46

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur.

Observe all federal, state and local regulations when disposing of the substance.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

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DOT (US)

UN number: 1230

Proper shipping name: Methanol

Environmental Hazards: yes

Packing group: II

Reportable Quantity(RQ): no data available

Class: 3 (6.1)

Poison Inhalation Hazard: no data available

IMDG

UN number: 1230

Proper shipping name: Methanol

Packing group: II

EMS-No: no data available

IATA

UN number: 1230

Proper shipping name: Methanol

Packing group: II

Class: 3 (6.1)

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 16: Other information

Prepared By	Regulatory Affairs ALADDIN SCIENTIFIC CORPORATION Email: QualityAssurance@aladdinsci.com
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