

SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-10

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : N,N-Dimethyloctylamine
Product Number : D106326
Brand : aladdin
CAS-No. : 7378-99-6

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)

Flammable liquid (Class 4), H227
Acute toxicity, oral (Class 3), H301
Acute toxicity, inhalation (Class 2), H330
Skin corrosion/irritation (Category 1B), H314
Severe eye injury/eye irritation (Category 1), H318
Skin allergy (Category 1), H317
Reproductive toxicity (Category 1B), H360
Acute (short-term) aquatic hazards (Category 1), H400
Long term aquatic hazards (Category 1), H410

2.2 GHS Label elements, including precautionary statements

Pictogram



Danger

Signal word

Hazard statement(s)

H227	Combustible liquid
H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H330	Fatal if inhaled
H360	May damage fertility or the unborn child
H410	Very toxic to aquatic life with long lasting effects

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.
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.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] Wear respiratory protection.
P391	Collect spillage.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
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+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off 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.
P304+P340+P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor. if you feel unwell.
P301+P310+P330	IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER/doctor/.

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: 1-(Dimethylamino)octane N-Octyldimethylamine DMOA N,N-Dimethyl-n-octylamine N-n-Octyldimethylamine
Formula	: C ₁₀ H ₂₃ N
Molecular weight	: 157.3
CAS No.	: 7378-99-6
EC-NO.	: 230-939-3

Component	Classification	Concentration
N,N-Dimethyloctylamine	no data available	≥95%

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. 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. Take victim immediately to hospital. 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

Do NOT induce vomiting. 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

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

Carbon oxides, nitrogen oxides (NO_x)

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting 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**

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Operators should be specially trained and strictly abide by the operating procedures. Operation and disposal should be carried out in a place with local ventilation or general ventilation facilities. Avoid eye and skin contact and avoid breathing vapor. See Section 8 for personal protective measures. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled, and there should be a grounding device to prevent the accumulation of static electricity. Avoid contact with incompatible substances such as oxidizing agents (see section 10 for incompatible substances). When handling, it should be lightly loaded and unloaded to prevent damage to packaging and containers. Empty containers may be harmful residues. Wash hands after use and prohibit eating or drinking in the workplace. Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emer

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7.2 Conditions for safe storage, including any incompatibilities

Sensitive to air. Argon filled storage

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	form: Liquid color: Colorless
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available

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e) Melting point/freezing point	-57°C
f) Initial boiling point and boiling range	195°C
g) Flash point	65 °C
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	0.765
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

Warning! Contact with nitrite, nitrate, and nitrite may release nitrosamines Possible violent reaction with it: Strong oxidizing agent strong acid

10.4 Conditions to avoid

Strong heating

10.5 Incompatible materials

Copper, copper compounds

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

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

11.1 Information on toxicological effects

Acute toxicity

LD50 oral rat -162 mg/kg

Note: Behavioral: Drowsiness (comprehensive vitality inhibition).

Skin and appendages: Other: Hair.

(RTECS)

Symptoms: Swallowing can cause severe burns to the mouth and throat, and there is a risk of esophageal and gastric perforation.

LC50 inhalation - rats - males -4 hours -0.59 mg/l - vapor

(OECD Testing Guidelines 436)

Symptoms: Cough, shortness of breath, mucosal irritation

Inhalation: stimulates the respiratory system.

Transcutaneous: No data available

Skin corrosion/irritation

Skin - Rabbit Result: Causing burns. (OECD Testing Guidelines 404)

Serious eye damage/eye irritation

Eyes - Bovine Horn Membrane Result: Causing severe eye damage. (OECD Testing Guidelines 437) Note: Causes serious eye damage.

Respiratory or skin sensitisation

Local lymph node assay (LLNA) - mice Result: Positive (OECD Testing Guidelines 429)

Germ cell mutagenicity

Test type: Ames test Testing system: Salmonella typhimurium Metabolic activation: with or without metabolic activation effect Method: OECD Testing Guidelines 471 Result: Negative Test type: In vitro mammalian cell gene mutation test Testing system: Mouse lymphoma cells Metabolic activation: with or without metabolic activation effect Method: OECD Testing Guidelines 490 Result: Negative Test type: Micronucleus test Testing system: Chinese hamster lung cells Metabolic activation: with or without metabolic activation effect Method: OECD Testing Guidelines 487 Result: Negative

Carcinogenicity

no data available

Reproductive toxicity

May cause harm to the fetus. May cause harm to fertility.

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

Repeated toxicity - rats - male and female - oral - levels of no harmful effects observed -150 mg/kg

Registration of toxic effects of chemical substances: RG8075000

This substance causes significant damage to mucosal tissue, upper respiratory tract, eyes, and skin., Cough, shortness of breath, headache, nausea

To our knowledge, this chemical, physical, and toxic property has not been fully studied.

In specific circumstances, skin contact with nitrate or nitric acid can lead to the formation of ammonium nitrite, which has been proven to be carcinogenic in animal experiments

Other dangers cannot be ruled out.

Operate according to good industrial hygiene and safety regulations.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity static test for fish LC50 *Oncorhynchus mykiss* (rainbow trout) -5.7 mg/l -96 h
(OECD Testing Guidelines 203)

Toxicity to *Daphnia* and other aquatic invertebrates

Static test EC50- *Daphnia magna* -9.28 mg/l -48 hours
(OECD Testing Guidelines 202)

Toxicity static test on algae ErC50- *Pseudokirchneriella subcapitata* -0.26 mg/l -72 hours
(OECD Testing Guidelines 201)

Toxicity static test for bacteria EC50- Activated sludge -30.9 mg/l -3 hours
(OECD Testing Guidelines 209)

12.2 Persistence and degradability

Aerobic - Exposure time 29 days Result: 98% - rapidly biodegradable. (OECD Testing Guidelines 301B)

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

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Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 2927

Packing group: II

Class: 6.1 (8)

Proper shipping name: Organic toxic

Reportable Quantity(RQ): no data

Poison Inhalation Hazard: no data

liquid, corrosive, not otherwise specified available

available

(N, N, - dimethyl-1-octylamine)

Environmental Hazards: yes

IMDG

UN number: 2927

Packing group: II

EMS-No: no data available

Proper shipping name: Organic toxic liquid, corrosive, not otherwise specified (N, N, - dimethyl-1-octylamine)

IATA

UN number: 2927

Packing group: II

Class: 6.1 (8)

Proper shipping name: Organic toxic liquid, corrosive, not otherwise specified (N, N, - dimethyl-1-octylamine)

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

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Revision Summary

SDS sections updated v1

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