

SAFETY DATA SHEET

Version: v1
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : 1-Dodecanol
Product Number : D112299
Brand : aladdin
CAS-No. : 112-53-8

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)

Serious eye injury/eye irritation: Category 2A

Acute (short-term) aquatic hazard: Category 1

Long term aquatic hazards: Category 1

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word	Warning
Hazard statement(s)	
H319	Causes serious eye irritation
H410	Very toxic to aquatic life with long lasting effects
Precautionary statement(s)	
P264	Wash hands [and ...] thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P391	Collect spillage.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to an approved waste disposal plant.

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

Additional precautionary phrases are located throughout the safety data sheet.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture : Substance

Component	CAS NO.	Concentration
1-Dodecanol	112-53-8	≥99%(GC)

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

Take off contaminated clothing and shoes immediately. 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. Continue rinsing eyes during transport to hospital.

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

The most important known symptoms and effects are described in the labelling (see section 2.2)

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

Water, Foam, Carbon dioxide (CO₂), Dry powder

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

In combustion toxic fumes may form.

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

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Do not attempt to take action without suitable protective clothing. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or river. Alert the neighbourhood to the presence of fumes or gas.

6.3 Methods and materials for containment and cleaning up

Mix with sand or vermiculite. Sweep up and shovel. Transfer to a closable, labelled salvage container for disposal by

an appropriate method.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Wash hands thoroughly after handling. Ensure there is sufficient ventilation of the area. Normal measures for preventive fire protection. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Sealed in dry, Room Temperature

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
d) pH	no data available
e) Melting point/freezing point	24°C
f) Initial boiling point and boiling range	255-259°C
g) Flash point	> 100°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	0.833
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

Possible violent reactions may occur with it: strong oxidizing agent

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong heating

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat ->5000 mg/kg

(OECD Testing Guideline 401)

Inhalation: No data available

LD50 transdermal rabbit male and female -8000 mg/kg

(US-EPA)

Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation -4 hours (OECD Testing Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit Result: Irritation to the eyes. - 24 h (OECD Testing Guideline 405)

Respiratory or skin sensitisation

Buehler Guinea Pig Test - Guinea Pig Result: Negative (US-EPA)

Germ cell mutagenicity

Test Type: Ames Test System: Salmonella Typhimurium Metabolism Activation: with or without Metabolic

Activation Method: OECD Test Guideline 471 Result: Negative Test Type: In vitro Mammalian Cell Gene Mutation
Test System: Mouse Lymphoma Cell Neogene Metabolism Activation: with or without Metabolic Activation
Method: OECD Test Guideline 476 Result: Negative Test Type: In vitro Chromosomal Aberration Test System:
Chinese Hamster Ovary Cell Metabolism Activation: with or without Metabolic Activation Method: OECD Test
Guideline 473 Result: Negative Test Type: Micronucleus Test System: Human Lymphocyte Metabolism Activation:
with or without Metabolic Activation Method: OECD Test Guideline 487 Result: Negative Test Type: Micronucleus
Test Species: Mouse Cell Type: Bone Marrow Infection Route: Oral Method: OECD Test Guideline 474 Result:
Negative

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

Repeated toxicity - rat - male and female - transdermal - level of no observed harmful effects -1000 mg/kg - lowest
level of observed harmful effects -100 mg/kg

Repeated toxicity - rats - male and female - oral -28 days - level at which no harmful effects were observed ->1000
mg/kg

To our knowledge, the chemical, physical, and toxic properties of this substance have not been fully studied.

The following data applies to general fatty alcohols: mucosal irritation when the product is not handled and used
correctly After extensive absorption: anesthesia

Operate in accordance with good industrial hygiene and safety regulations.

SECTION 12: Ecological information

12.1 Toxicity

1-Dodecanol:

Toxicity to fish: LC50 (Pimephales promelas): 1.01 mg/l

Endpoint: Mortality rate

Exposure time: 96 hours

Test type: Flow test

Note: (ECOTOX database)

Toxicity to *Daphnia magna* and other aquatic invertebrates: EC50 (*Daphnia magna*): 0.39 mg/l

Endpoint: Activity inhibition

Exposure time: 48 hours

Test type: Semi static test

Analysis and monitoring: Yes

Method: OECD Testing Guidelines 202

GLP: Yes

Toxicity to algae/aquatic plants: ErC50 (*Desmodesmus subspicatus*): 0.33 mg/l

Exposure time: 72 hours

Test type: Static test

Note: (ECOTOX database)

M-factor (acute aquatic hazard): 1

Toxicity to fish (chronic toxicity): NOEC (*Pimephales promelas*): 0.26 mg/l

Exposure time: 33 days

Test type: Flow test

Analysis and monitoring: Yes

Method: OECD Testing Guidelines 210

GLP: Yes

Toxicity to *Daphnia magna* and other aquatic invertebrates (chronic toxicity): NOEC (*Daphnia magna*): 0.014 mg/l

Exposure time: 21 days

Test type: Semi static test

Analysis and monitoring: Yes

Method: OECD Testing Guidelines 211

GLP: Yes

M-factor (long-term aquatic hazards): 1

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

Consult state, local or national regulations for proper disposal. Hand over to authorised disposal company as hazardous waste.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 3077

Packing group: III

Class: 9

Proper shipping name: Environmentally Reportable Quantity(RQ):no data
hazardous substances, solid, n.o.s

available

Poison Inhalation Hazard:no data
available

Environmental Hazards: yes

IMDG

UN number: 3077

Packing group: III

EMS-No:no data available



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Proper shipping name: Environmentally hazardous substances, solid, n.o.s

IATA

UN number: 3077

Packing group: III

Class: 9

Proper shipping name: Environmentally hazardous substances, solid, n.o.s

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

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Revision Summary

SDS sections updated v1

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