

Version: v1
Revision Date: 2023-07-
18
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SAFETY DATA SHEET

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

1.1 Product identifiers

Product name : Diisopropylamine
Product Number : D108300
Brand : aladdin
CAS-No. : 108-18-9

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co.,Ltd
Address : 36 Xinjinqiao Road, Shanghai
Telephone : 400-620-6333
Fax : no data available

1.4 Emergency telephone number

Emergency Phone : 0532-83889090

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Flammable liquids (Category 2), H225

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 3), H331

Skin corrosion (Sub-category 1B), H314

Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Long-term (chronic) aquatic hazard (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

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| | | | |
|-----------------------------------|--|--------------------------|--------------------------|
| Pictogram | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Signal word | Danger | | |
| Hazard statement(s) | | | |
| H225 | Highly Flammable liquid and vapor | | |
| H302 | Harmful if swallowed | | |
| H313 | May be harmful in contact with skin | | |
| H314 | Causes severe skin burns and eye damage | | |
| H331 | Toxic if inhaled | | |
| H335 | May cause respiratory irritation | | |
| H412 | Harmful to aquatic life with long lasting effects | | |
| Precautionary statement(s) | | | |
| P210 | Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking. | | |
| 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. | | |
| P243 | Take precautionary measures against static discharge. | | |
| P261 | Avoid breathing 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. | | |
| P273 | Avoid release to the environment. | | |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. | | |
| P310 | Immediately call a POISON CENTER or doctor/physician. | | |
| P312 | Call a POISON CENTER or doctor/... if you feel unwell. | | |
| P363 | Wash contaminated clothing before reuse. | | |
| 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]. | | |
| 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. | | |
| 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. | | |
| P301+P312+P330 | IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. | | |

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

SECTION 3: Composition/information on ingredients

3.1 Substances

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| | |
|------------------|---|
| Synonyms | : Isodipropylamine N-(1-methylethyl)-2-Propanamine DIPA |
| Formula | : C6H15N |
| Molecular weight | : 101.19 |
| CAS No. | : 108-18-9 |
| EC-NO. | : 203-558-5 |

| Component | Classification | Concentration |
|-------------------------|---|---------------------------------|
| Diisopropylamine | Flam. Liq. 2; Acute Tox. 4; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; STOT SE 3; Aquatic Chronic 3; H225, H302, H331, H314, H318, H335, H412 Concentration limits: >= 5 %: STOT SE 3, H335; | analytical standard,>99.5% (GC) |

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

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) and/or in section 11

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

Carbon dioxide (CO₂) Foam Dry powder

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

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Carbon oxides Nitrogen oxides (NOx) Flash back possible over considerable distance., Container explosion may occur under fire conditions. Combustible. Pay attention to flashback. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). 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

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. 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 place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

7.3 Specific end use(s)

no data available

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SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

| Component | CAS No. | Value | Control parameters | Basis |
|------------------|----------|--------------------------|-------------------------------|--|
| Diisopropylamine | 108-18-9 | TWA | 5 ppm | U.S.A. ACGIH threshold limit value (TLV) |
| | Note | Skin absorption hazard | | |
| | | TWA | 5 ppm 20 mg/m ³ | U.S.A. NIOSH recommended exposure limits |
| | | May have skin absorption | | |
| | | TWA | 5 ppm 20 mg/m ³ | U.S.A. Occupational exposure limits (OSHA) - table Z-1 air pollutant limits |
| | | Skin Name | | |
| | | TWA | 5 ppm 20 mg/m ³ | USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000 |
| | | Skin Symbol | | |
| | | PEL | 5 ppm 20 mg/m ³ | Allowable exposure limits for chemical pollutants in California (article 107, paragraph 8) |

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| | | |
|--|--|------|
| | | Skin |
|--|--|------|

8.2 Exposure controls

Appropriate engineering controls

Replace contaminated clothing immediately Use skin protective lotion. Wash hands and face after using this substance

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

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.

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

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 |
| e) Melting point/freezing point | -61°C |
| f) Initial boiling point and boiling range | 84°C |
| g) Flash point | -17°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 | 0.72 |
| n) Water solubility | Slightly soluble in water, soluble in most organic solvents. |
| o) Partition coefficient: n-octanol/water | no data available |

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| | |
|------------------------------|-------------------|
| 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

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Risk of ignition or formation of inflammable gases or vapours with: Strong oxidizing agents nitrates perchlorates Aluminum Peroxides Exothermic reaction with: halogens acids Caution! In contact with nitrites, nitrates, nitrous acid possible liberator of nitrosamines!

10.4 Conditions to avoid

Warming.

10.5 Incompatible materials

Aluminum

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - 420 mg/kg

(US-EPA)

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

LC50 Inhalation - Rat - male and female - 4 h - 5,35 mg/l

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(OECD Test Guideline 403)

Symptoms: mucosal irritations, Cough, Shortness of breath, Lung edema, Possible damages:, damage of respiratory tract

LD50 Dermal - Rat - male and female - > 2.000 - 5.000 mg/kg

(OECD Test Guideline 402)

Skin corrosion/irritation

Skin - Rabbit Result: Causes burns. - 3 min (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit Result: Causes burns. (OECD Test Guideline 405) Causes serious eye damage. conjunctivitis

Respiratory or skin sensitisation

Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406)

Germ cell mutagenicity

Test Type: In vitro mammalian cell gene mutation test Test system: Mouse lymphoma test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 33 Days - NOAEL (No observed adverse effect level) - 15 mg/kg

Remarks: (ECHA)

Repeated dose toxicity - Rat - male and female - Dermal - 28 d - NOAEL (No observed adverse effect level) - >= 150 mg/kg

RTECS: IM4025000

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis,

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pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Systemic effects:

After absorption:

Headache

Convulsions

CNS disorders

Under given conditions, contact with nitrites or nitric acid can lead to the formation of nitrosamines, which have shown themselves to be carcinogenic in animal experiments.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Liver - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish static test LC50 - Leuciscus idus (Golden orfe) - 26 mg/l - 96 h
(DIN 38412 part 15)

Toxicity to daphnia

and other aquatic
invertebrates

static test LC50 - Daphnia magna (Water flea) - 110 mg/l - 48 h

Remarks: (ECHA)

Toxicity to algae static test EC50 - SELENASTRUM - 20 mg/l - 96 h
(US-EPA)

Toxicity to bacteria static test EC50 - activated sludge - > 100 mg/l - 3 h
(OECD Test Guideline 209)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 11 % - Not readily biodegradable. (OECD Test Guideline 301D)

12.3 Bioaccumulative potential

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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

Dispose of the remaining and non recyclable solution to a licensed company.

Contaminated packaging

no data available

SECTION 14: Transport information

DOT (US)

UN number: 1158

Packing group: II

Class: 3 (8)

Proper shipping name:

DIISOPROPYLAMINE

Environmental Hazards: no

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data

IMDG

UN number: 1158

Packing group: II

EMS-No: no data available

Proper shipping name: DIISOPROPYLAMINE

IATA

UN number: 1158

Packing group: II

Class: 3 (8)

Proper shipping name: DIISOPROPYLAMINE

SECTION 15: Regulatory information

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

SECTION 16: Other information

Further information

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