

Shanghai Aladdin Biochemical Technology Co., Ltd.
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

SAFETY DATA SHEET

Version: v1
Revision Date: 2025-09-25
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Carbon disulfide
Product Number : C103308
Brand : aladdin
CAS-No. : 75-15-0

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 liquid (category 2), H225

Acute toxicity, oral (category 3), H301

Acute toxicity, inhalation (category 4), H332

Skin corrosion/irritation (category 2), H315

Serious eye damage/eye irritation (category 2A), H319

Reproductive toxicity (category 2), H361

Specific target organ toxicity (repeated exposure) (Category 1), H372

Acute (short-term) aquatic hazard (category 2), H401

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 |
| H301 | Toxic if swallowed |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H361 | Suspected of damaging fertility or the unborn child |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H401 | Toxic to aquatic life |

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. |
| 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. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P321 | Specific treatment (see ... on this label). |
| P302+P352 | IF ON SKIN: wash with plenty of water. |
| 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. |
| 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+P235 | Store in a well-ventilated place. Keep cool. |
| P501 | Dispose of contents/container to an approved waste disposal plant. |
| P203 | Obtain, read and follow all safety instructions before use. |
| P264+P265 | Wash hands [and ...] thoroughly after handling. Do not touch eyes. |
| P318 | if exposed or concerned, get medical advice. |
| P337+P317 | If eye irritation persists: Get medical help. |
| P332+P317 | If skin irritation occurs: Get medical help. |
| P319 | Get medical help if you feel unwell. |

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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 | : Carbon bisulfide; Dithiocarbonic anhydride |
| Formula | : CS ₂ |
| Molecular weight | : 76.14 |
| CAS No. | : 75-15-0 |
| EC-NO. | : 200-843-6 |

| Component | Classification | Concentration |
|------------------|--|-----------------------------------|
| Carbon disulfide | Flammable liquid category 2; acute toxicity category Category 3; Acute toxicity Category 4; Skin rot Erosion/irritation category 2; serious eye damage/ Eye irritation Category 2A; Reproductive toxicity Category 2; Specific target organ system toxicity (Repeated exposure) Category 1; Acute (Short-term) Aquatic hazard category 2; H225, H301, H332, H315, H319, H361, H372, H401 | UltraPureChrom™, for HPLC, ≥99.9% |

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

After swallowing: immediately let the injured drink water (maximum 2 glasses). Consult a doctor.

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

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Suitable extinguishing media

Water foam carbon dioxide (CO₂) dry powder

Unsuitable extinguishing media

For this substance/mixture, there are no restrictions on extinguishing agents.

5.2 Special hazards arising from the substance or mixture

Carbon oxide Sulfur oxides It is possible for the tongue of fire to flash back through a considerable distance. , The container may explode in fire, and the vapor may form an explosive mixture with air. , Heating can be Can explode. Flammable. Beware of tempering. Vapor is heavier than air, so it can spread along the ground. In case of fire, hazardous gas or vapor may be generated. It forms an explosive mixture with air at moderate temperatures.

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**

Advice for non-emergency personnel Do not inhale vapors or aerosols. Avoid material contact. Ensure adequate ventilation. Keep away from heat and fire sources. sparse Disperse dangerous areas, follow emergency procedures, and seek expert opinions. 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. 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 (see sections 7 and 10). 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**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Refrigerate before opening.

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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 EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves 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

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 full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) 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 |
| e) Melting point/freezing point | -111°C |
| f) Initial boiling point and boiling range | 46.5°C |
| g) Flash point | -30 °C |
| h) Evaporation rate | no data available |

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| | |
|---|-------------------|
| 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 | no data available |
| 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

Stable under recommended storage conditions.

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

There is a risk of explosion when interacting with it: Nitrogen oxide permanganate oxidant halogen-halogen compound oxyhalide iron oxide iron chlorohydrazine powdered aluminum oxychloride potassium permanganate potassium permanganate lithium sodium dioxide nitrogen azide may interact with it There is a risk of fire or the production of flammable gas or vapor: Fluorophosphorus sulfur activated carbon metal powder reducing agent reacts exothermically with: zinc acid

10.4 Conditions to avoid

Warm up

10.5 Incompatible materials

Rubber, various plastics

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

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11.1 Information on toxicological effects

Acute toxicity

LD50 Oral-Rat-Female-> 2,000 mg/kg

(OECD Test Guideline 423)

LC50 inhalation-rat-male and female-4 h-10.35 mg/l

(OECD Test Guideline 403)

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Carcinogenicity

no data available

Reproductive toxicity

Suspected of damaging the fetus. Suspected of damaging fertility.

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

Prolonged or repeated exposure can cause damage to organs. -Peripheral nervous system, central nervous system, cardiovascular system, eyes
Remarks: Classification according to EU CLP Regulation 1272/2008, Annex 6 (Table 3.1/3.2)

Aspiration hazard

no data available

Additional Information

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish semi-static test LC50-Danio rerio (zebrafish)-3 mg/l-96 h

(OECD Test Guideline 203)

Toxicity to water flea and other aquatic invertebrates

EC50-Daphnia magna (Water flea)-2.1 mg/l-48 h

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(OECD Test Guideline 202)

Toxicity to algae static test EC50-Chlorella pyrenoidosa-21 mg/l-96 h

(OECD Test Guideline 201)

Toxicity to bacteria static test EC50-bacteria-13 mg/l-24 h

Remarks: (ECHA)

12.2 Persistence and degradability

Biodegradability Aerobic-Exposure time 28 d Result:> 80%-fast biodegradable. (OECD Test Guideline 301D)

Chemical oxygen demand (COD) 1.47 mg/g Remarks: (IUCLID)

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Since the chemical safety assessment is not required/not carried out, the PBT/vPvB assessment is not available

12.6 Other adverse effects

Other ecological information Harm to drinking water. Avoid discharge into the surrounding environment. Stability in water-> 1 year Remarks: (IUCLID)

SECTION 13:

13.1 Disposal considerations

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 1131

Packing group: I

Class: 3 (6.1)

Proper shipping name: Carbon disulfide

Reportable Quantity(RQ): no data
available

Poison Inhalation Hazard: no data
available

Environmental Hazards: No

IMDG

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| | | |
|--|------------------|---------------------------|
| UN number: 1131 | Packing group: I | EMS-No: no data available |
| Proper shipping name: Carbon disulfide | | |
| IATA | | |
| UN number: 1131 | Packing group: I | Class: 3 (6.1) |
| Proper shipping name: Carbon disulfide | | |

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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