

No. 809, Chuhua Branch Road, Fengxian District, Shanghai

SAFETY DATA SHEET

Version: v1

Revision Date: 2023-12-02

Print Date: 2023-12-07

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

1.1 Product identifiers

Product name : DL-Dithiothreitol

Product Number : D104861
Brand : aladdin
CAS-No. : 3483-12-3

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

Identified uses : 仅供科研用途,不作为药物、家庭备用药或其它用途。

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)

2.2 GHS Label elements, including precautionary statements

Pictogram no data available Signal word no data available

Hazard statement(s)

Precautionary statement(s)

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms: threo-1,4-Dimercapto-2,3-butanediol;DL-DTT; DL-1,4-Dithiothreitol;Cleland's

reagent;DL-2,3-Dihydroxy-1,4-butanedithiol;DL-1,4-Dimercapto-2,3-butanediol

Formula : C4H1002S2 Molecular weight : 154.25



No. 809, Chuhua Branch Road, Fengxian District, Shanghai

CAS No. : 3483-12-3 EC-NO. : MFCD00004877

Component	Classification	Concentration
DL-Dithiothreitol		
	no data available	for electrophoresis,≥99%

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. 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

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

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Sulphur oxides, Hydrogen sulfide gas

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information



No. 809, Chuhua Branch Road, Fengxian District, Shanghai

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.2 Environmental precautions

Do not let product enter drains.

Sigma - 43816 Page 3 of 7

6.3 Methods and materials for containment and cleaning up

6.4 Reference to other sections

no data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. < br/>

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.

Recommended storage temperature: 2 - 8 °C

Air sensitive. Store under inert gas.

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
br/>sigma - 43816 Page 4 of 7

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under
br/>appropriate government standards such as NIOSH (US) or EN 166(EU).
br/>

Skin protection

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



No. 809, Chuhua Branch Road, Fengxian District, Shanghai

touching

solve's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in

saccordance with applicable laws and good laboratory practices. Wash and dry hands.

shr/>Immersion protection

Material: Nitrile rubber

Splash protection

shr/>Material: Nitrile rubber

Splash protection

Splash protection

Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount
 of the dangerous substance at the specific workplace.
 or the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose

combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the

spirator 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).

NIOSH (US) or CEN (EU).

Spirator is the sole means of protection, use a full-face supplied air respirator. Use

no data available

Control of environmental exposure

no data available

a) Appearance

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

no data available b) Odour c) Odour Threshold no data available Hq (b no data available e) Melting point/freezing point 42~43°C f) Initial boiling point and boiling range 125~130°C g) Flash point no data available no data available h) Evaporation rate i) Flammability (solid, gas) no data available i) Upper/lower flammability or explosive limits no data available k) Vapour pressure no data available I) 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



No. 809, Chuhua Branch Road, Fengxian District, Shanghai

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

no data available

10.4 Conditions to avoid

Bases, Oxidizing agents, Reducing agents, Alkali metals

10.5 Incompatible materials

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Sulphur oxides, Hydrogen sulfide gas
 Sulphur oxides, Sulphur oxides
 Sulphur oxides <br

10.6 Hazardous decomposition products

Oral LD50
br/>no data available
lnhalation LC50
no data available
Sigma - 43816 Page 5 of 7
br/>Dermal LD50
br/>no data available
Other information on acute toxicity
other available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

Eyes: no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity



No. 809, Chuhua Branch Road, Fengxian District, Shanghai

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a

component of this product present at levels greater than or equal to 0.1% is identified as a

component of this product present at levels greater than or equal to 0.1% is identified as a

stription or equal to 0.1% is identified as a

carcinogen by NTP.

STAL: No component of this product present at levels greater than or equal to 0.1% is identified as a

stription or equal to 0.1% is identified as a

STAL: No component of this product present at levels greater than or equal to 0.1% is identified as a

STAL: No component of this product present at levels greater than or equal to 0.1% is identified as a

STAL: No component of this product present at levels greater than or equal to 0.1% is identified as a

STAL: No component of this product present at levels greater than or equal to 0.1% is identified as a

STAL: No component of this product present at levels greater than or equal to 0.1% is identified as a

STAL: No component of this product present at levels greater than or equal to 0.1% is identified as a

STAL: No component of this product present at levels greater than or equal to 0.1% is identified as a

STAL: No component of this product present at levels greater than or equal to 0.1% is identified as a

STAL: No component of this product present at levels greater than or equal to 0.1% is identified as a

STAL: No component of this product present at levels greater than or equal to 0.1% is identified as a

STAL: No component of this product present at levels greater than or equal to 0.1% is identified as a

STAL: No component of this product present at levels greater than or equal to 0.1% is identified as a

STAL: No component of this product present at le

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

no data available

SECTION 12: Ecological information

12.1 Toxicity

no data available

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



No. 809, Chuhua Branch Road, Fengxian District, Shanghai

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste

 disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a

 chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

no data available

SECTION 14: Transport information

DOT (US)

UN number: no data available Packing group: - Class: -

Proper shipping name: Not dangerous Reportable Quantity(RQ): no data Poison Inhalation Hazard: No

goods available

Environmental Hazards: No

IMDG

UN number: no data available Packing group: - EMS-No: No

Proper shipping name: Not dangerous goods

IATA

UN number: no data available Packing group: - Class: -

Proper shipping name: Not dangerous goods

SECTION 15: Regulatory information

no data available

SECTION 16: Other information

Further information

Copyright Aladdin Co. Ltd. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

Version: v1 Revision Date: 2023-12-02 Print Date: 2023-12-07