

Version: v1
Revision Date: 2023-07-17
Print Date: 2023-07-22

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name : Bismuth telluride
Product Number : B119271
Brand : aladdin
CAS-No. : 1304-82-1

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

Identified uses : It is only for scientific research purposes, not for medicine, family standby medicine or other purposes.

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	
Signal word	Warning
Hazard statement(s)	
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H302+H312	Harmful if swallowed or in contact with skin
Precautionary statement(s)	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

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

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: Bismuth sesquitelluride , Bismuth telluride , Dibismuth tritelluride	
Formula	: Bi2Te3	
Molecular weight	: 800.76	
CAS No.	: 1304-82-1	
EC-NO.	: 215-135-2	
Component	Classification	Concentration
Bismuth telluride		
	no data available	powder,99.99% metals basis

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
no data available

If inhaled
no data available

In case of skin contact
no data available

In case of eye contact
no data available

If swallowed
no data available

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
no data available

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

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

no data available

5.3 Advice for firefighters

no data available

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

使用个人防护用品。避免粉尘生成。避免吸入蒸气、烟雾或气体。保证充分的通风。人员疏散到安全区域。避免吸入粉尘。

6.2 Environmental precautions

不要让产品进入下水道。

6.3 Methods and materials for containment and cleaning up

收集和处置时不要产生粉尘。扫掉和铲掉。放入合适的封闭的容器中待处理。

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

避免接触皮肤和眼睛。避免形成粉尘和气溶胶。在有粉尘生成的地方,提供合适的排风设备。一般性的防火保护措施。

7.2 Conditions for safe storage, including any incompatibilities

贮存在阴凉处。使容器保持密闭,储存在干燥通风处。充气操作和储存

7.3 Specific end use(s)

无数据资料

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

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

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**Eyeface 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

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU 2016 / 425 and the en 374 standard 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 respirator with multi-purpose combination (US) or type ABEK (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

no data available

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	585 °C (1,085 °F)
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
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	7.642 g/cm3
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

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

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

无数据资料

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

不要贮存在酸附近。，强氧化剂

10.5 Incompatible materials

其它分解产物- 无数据资料

10.6 Hazardous decomposition products

无数据资料

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

无数据资料

Serious eye damage/eye irritation

无数据资料

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

此产品中没有大于或等于0。 1%含量的组分被IARC鉴别为可能的或肯定的人类致癌物。

Carcinogenicity

无数据资料

Reproductive toxicity

吸入- 可能引起呼吸道刺激。

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

Specific target organ toxicity - single exposure

无数据资料

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

无数据资料

Additional Information

no data available

SECTION 12: Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

无数据资料

12.3 Bioaccumulative potential

无数据资料

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

无数据资料

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

将剩余的和不可回收的溶液交给有许可证的公司处理。联系专业的拥有废弃物处理执照的机构来处理此物质。与易燃溶剂相溶或者相混合，在备有燃烧后处理和洗刷作用的化学焚化炉中燃烧

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: no data available

Packing group: no data available

Class: no data available

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

Proper shipping name: no data available Reportable Quantity(RQ): no data available Poison Inhalation Hazard: no data
Environmental Hazards: no data available

IMDG
UN number: no data available Packing group: no data available EMS-No: no data available
Proper shipping name: no data available

IATA
UN number: no data available Packing group: no data available Class: no data available
Proper shipping name: no data available

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: 2023-07-17 Print Date: 2023-07-22