

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-17

Print Date: 2025-09-23

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

### 1.1 Product identifiers

|                |                  |
|----------------|------------------|
| Product name   | : Lead telluride |
| Product Number | : L107413        |
| Brand          | : aladdin        |
| CAS-No.        | : 1314-91-6      |

### 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,<br>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)

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

|      |                                                                |
|------|----------------------------------------------------------------|
| H302 | Harmful if swallowed                                           |
| H332 | Harmful if inhaled                                             |
| H351 | Suspected of causing cancer                                    |
| H360 | May damage fertility or the unborn child                       |
| H373 | Causes damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life                                     |

**ALADDIN SCIENTIFIC CORPORATION**

14078 Meridian Parkway, Riverside, CA. 92518

|                                   |                                                                            |
|-----------------------------------|----------------------------------------------------------------------------|
| H410                              | Very toxic to aquatic life with long lasting effects                       |
| <b>Precautionary statement(s)</b> |                                                                            |
| P260                              | Do not breathe dust/fume/gas/mist/vapors/spray.                            |
| 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. |
| P330                              | Rinse mouth.                                                               |
| P391                              | Collect spillage.                                                          |
| P304+P340                         | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P405                              | Store locked up.                                                           |
| P501                              | Dispose of contents/container to an approved waste disposal plant.         |
| P203                              | Obtain, read and follow all safety instructions before use.                |
| P301+P317                         | IF SWALLOWED: Get medical help.                                            |
| P318                              | if exposed or concerned, get medical advice.                               |
| P317                              | Get emergency medical help.                                                |
| P319                              | Get medical help if you feel unwell.                                       |

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                     |
|------------------|---------------------|
| Synonyms         | : no data available |
| Formula          | : PbTe              |
| Molecular weight | : 334.8             |
| CAS No.          | : 1314-91-6         |
| EC-NO.           | : 215-247-1         |

| Component             | Classification    | Concentration                            |
|-----------------------|-------------------|------------------------------------------|
| <b>Lead telluride</b> | no data available | PrimorTrace™,<br>≥99.99% metals<br>basis |

## 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**

Flush eyes with water as a precaution.

**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.- Tellurium oxides, Lead oxides

**5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information**

no data available

---

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**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**

no data available

---

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## 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 formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

### 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

Safety glasses with side-shields conforming to EN166 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, 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 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

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                 | 905 °C (1,661 °F) - lit.    |
| 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                             | 8.164 g/mL at 25 °C (77 °F) |
| 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

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

Strong oxidizing agents, Strong acids

## 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.- Tellurium oxides, Lead oxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**

no data available

**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 data available

**Carcinogenicity**

2A - Group 2A: Probably carcinogenic to humans (Lead telluride)

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

Toxic if inhaled. May cause respiratory tract irritation.

**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

ALADDIN SCIENTIFIC CORPORATION  
 14078 Meridian Parkway, Riverside, CA. 92518

### 12.5 Results of PBT and vPvB assessment

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.Very toxic to aquatic life.

### 12.6 Other adverse effects

no data available

## SECTION 13:

### 13.1 Disposal considerations

**Product**

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**

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

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

## SECTION 16: Other information

|               |                                                                                                                                                     |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Prepared By   | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a> |
| Creation Date | 10-Sep-2020                                                                                                                                         |
| Revision Date | 17-Sep-2025                                                                                                                                         |
| Print Date    | 23-Sep-2025                                                                                                                                         |

---

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Revision Summary

SDS sections updated v1

### Disclaimer

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.