



SAFETY DATA SHEET

MATERION

1. Product and company identification

Product name **Lead Telluride (PbTe)**
Manufacturer/Supplier Materion Advanced Chemicals Inc.
Address 407 N. 13th Street
1316 W. St. Paul Avenue
Milwaukee, WI 53233
United States
Telephone 414.212.0257
e-mail advancedmaterials@materion.com
Contact person Noreen Atkinson
Emergency telephone number

Recommended use and Limitations on use

Recommended use Not available.
SDS number L-MSDS0003

2. Hazards identification

GHS classification

Physical hazards Not classified.
Health hazards Acute toxicity, oral Category 4
Acute toxicity, inhalation Category 4
Carcinogenicity Category 1B
Reproductive toxicity (fertility, the unborn child) Category 1A
Specific target organ toxicity following repeated exposure Category 2
Environmental hazards Hazardous to the aquatic environment, acute hazard Category 1
Hazardous to the aquatic environment, long-term hazard Category 1

Label elements

Symbols None.
Signal word None.
Hazard statement None.

3. Composition/information on ingredients

Substance or mixture Substance

Chemical property	CAS Number	Concentration (%)
Lead Telluride	1314-91-6	100

4. First aid measures

Inhalation Not available.
Skin contact Not available.
Eye contact Not available.
Ingestion Not available.
Potential delayed effects Not available.
Personal protection for first-aid responders Not available.
Notes to physician Not available.

5. Fire-fighting measures

Extinguishing media Not available.

Extinguishing media to avoid	None.
HAZCHEM Code Number	None.
Specific hazards during fire fighting	None.
Special fire fighting procedures	Not available.
Protection of fire-fighters	Not available.
Hazards from combustion products	None.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Not available.
Environmental precautions	Not available.
Spill cleanup methods	Not available.

7. Handling and storage

Handling

Precautions	Not available.
Safe handling advice	Not available.
Prevention of fire and explosion	Not available.

Storage

Suitable storage conditions	Not available.
Incompatible materials	Not available.

8. Exposure controls/personal protection

Exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

ACGIH Biological Exposure Indices

Material	Value	Determinant	Specimen	Sampling time
Lead Telluride (CAS 1314-91-6)	300 µg/l	Lead	Blood	*

* - For sampling details, please see the source document.

Engineering controls

Personal protective equipment

Respiratory protection	Not available.
Skin protection	Not available.
Eye/face protection	Not available.
Radioactive or thermal hazards	Not available.
Hygiene measures	Not available.

9. Physical and chemical properties

Appearance

Physical state	Solid.
Form	Not available.
Colour	Not available.

Odour Not applicable.

Odour threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Boiling point, initial boiling point, and boiling range Not available.

Flash point Not available.

Auto-ignition temperature Not available.

Flammability (solid, gas)	Not applicable.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Evaporation rate	Not available.
Relative density	Not available.
Density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Other data	
Molecular formula	PbTe

10. Stability and reactivity

Stability	None.
Conditions to avoid	None.
Incompatible materials	None.
Hazardous decomposition products	None.
Possibility of hazardous reactions	None.

11. Toxicological information

Acute toxicity	Not available.
Information on likely routes of exposure	
Ingestion	Not available.
Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Routes of exposure	Not available.
Symptoms	Not available.
Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	Not available.
Skin sensitiser	Not available.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Lead Telluride (CAS 1314-91-6)

2A Probably carcinogenic to humans.

Chronic effects	Not available.
Relevant negative data	Not available.

12. Ecological information

Ecotoxicity	Not available.
Persistence and degradability	Not available.
Bioaccumulation	Not available.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.

Mobility Not available.

Other hazardous effects Not available.

13. Disposal considerations

Disposal methods/information Not available.

Special precautions Not available.

14. Transport information

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

15. Regulatory information

16. Other information

References Not available.

Issued by
Not available.

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Not available.

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