



SAFETY DATA SHEET

MATERION

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation	Lead Telluride (PbTe)
Version No.	01
Issue date	04-May-2015
CAS #	1314-91-6
SDS Number	L-MSDS0003
Manufacturer information	Materion Advanced Chemicals Inc. 407 N. 13th Street 1316 W. St. Paul Avenue Milwaukee, WI 53233 United States advancedmaterials@materion.com 414.212.0257

2. HAZARDS IDENTIFICATION

Classification	Repr. Cat. 1;R61, Repr. Cat. 3;R62, Xn;R20/22, R33, N;R50/53
Physical hazards	Not classified as a physical hazard.
Health hazards	May cause harm to the unborn child. Possible risk of impaired fertility. Harmful by inhalation and if swallowed. Danger of cumulative effects.
Environmental hazards	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent	EC-No.	Classification
Lead Telluride	1314-91-6	100	215-247-1	Repr. Cat. 1;R61, Repr. Cat. 3;R62, Xn;R20/22, R33, N;R50/53

4. FIRST-AID MEASURES

5. FIRE-FIGHTING MEASURES

6. ACCIDENTAL RELEASE MEASURES

7. HANDLING AND STORAGE

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Turkey. OELs. Regulation on Protection of Health & Safety Measures from Risks related to Chemical Agents at Work, Annex I, Indicative Occupational Exposure Limit Values

Material	Type	Value
Lead Telluride (CAS 1314-91-6)	TWA	0,15 mg/m3

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.

Recommended monitoring procedures

Additional exposure data Not available.

Personal protective equipment

Skin and body protection 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.
Boiling point	Not available.
Flash point	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapour pressure	Not available.
Relative density	Not available.
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Viscosity	Not available.
Vapour density	Not available.
Evaporation rate	Not available.
Melting point/freezing point	Not available.
Auto-ignition temperature	Not available.
VOC	Not available.
Molecular formula	PbTe

10. STABILITY AND REACTIVITY

Conditions to avoid	Not available.
Hazardous decomposition products	Not available.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Lead Telluride (CAS 1314-91-6)

2A Probably carcinogenic to humans.

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

14. TRANSPORT INFORMATION

ADR

Not regulated as dangerous goods.

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

Labeling

Contains	Lead Telluride
EC number	215-247-1

Symbol(s)



Toxic



Dangerous for the environment

R-phrases(s)

R61 May cause harm to the unborn child.
R20/22 Harmful by inhalation and if swallowed.
R33 Danger of cumulative effects.
R62 Possible risk of impaired fertility.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S53 Avoid exposure - obtain special instructions before use.
S60 This material and its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

16. OTHER INFORMATION

Wording of the R-phrases in sections 2 and 3

R20/22 Harmful by inhalation and if swallowed.
R33 Danger of cumulative effects.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61 May cause harm to the unborn child.
R62 Possible risk of impaired fertility.