



# SAFETY DATA SHEET

**MATERION**

## 1. Product and company identification

**Product identifier**                      **Lead Based Ribbon**

**Other means of identification**   None.

### Recommended use of the chemical and restrictions on use

**Recommended use**                      Not available.

**Restrictions on use**                      Not available.

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

**Company name**                      Materion Advanced Materials Technologies and Services Inc.

**Address**                                      2978 Main Street  
Buffalo, NY 14214

United States

**Telephone**                                716-837-1000

**Website**                                    materion.com

**E-mail**                                        Not available.

Not available.

**Emergency phone number**            800-424-9300                                Chemtrec

## 2. Hazard(s) identification

**Physical hazards**                      Not classified.

**Health hazards**                            Acute toxicity, dermal                      Category 2  
Carcinogenicity                              Category 2  
Reproductive toxicity (fertility, the unborn child)                      Category 1A  
Reproductive toxicity                              Effects on or via lactation  
Specific target organ toxicity following repeated exposure                      Category 1

**Environmental hazards**                      Hazardous to the aquatic environment, acute hazard                      Category 1  
Hazardous to the aquatic environment, long-term hazard                      Category 2

#### Label elements

**Hazard symbol**                              None.

**Signal word**                                 None.

**Hazard statement**                         Not available.

#### Precautionary statement

**Prevention**                                 Not available.

**Response**                                    Not available.

**Storage**                                      Not available.

**Disposal**                                      Not available.

**Other hazards which do not result in classification**                      None known.

**Supplemental information**                None.

## 3. Composition/information on ingredients

### Mixtures

| Chemical name | Common name and synonyms | CAS number | %       |
|---------------|--------------------------|------------|---------|
| Lead          |                          | 7439-92-1  | 90 - 95 |
| Indium        |                          | 7440-74-6  | 2 - 8   |
| Silver        |                          | 7440-22-4  | 1 - 5   |

#### 4. First-aid measures

|  |                |
|--|----------------|
| Inhalation   | Not available. |
| Skin contact                                       | Not available. |
| Eye contact  | Not available. |
| Ingestion  | Not available. |
| Most important symptoms/effects, acute and delayed | Not available. |

#### 5. Fire-fighting measures

|   |                 |
|---|-----------------|
| Suitable extinguishing media                                  | Not available.  |
| Unsuitable extinguishing media                                | Not available.  |
| Specific hazards arising from the chemical                    | Not applicable. |
| Special protective equipment and precautions for firefighters | Not available.  |

#### 6. Accidental release measures

|   |                |
|---|----------------|
| Personal precautions, protective equipment and emergency procedures | Not available. |
| Methods and materials for containment and cleaning up               | Not available. |
| Environmental precautions   | Not available. |

#### 7. Handling and storage

|  |                |
|--|----------------|
| Precautions for safe handling                                | Not available. |
| Conditions for safe storage, including any incompatibilities | Not available. |

#### 8. Exposure controls/personal protection

##### Occupational exposure limits

**Argentina. OELs. Law 19587 (Establishing the Conditions for Health and Safety in the Workplace) and Decree 351/79 Article 61, Annex III, as amended**

| Components             | Type | Value                  |
|------------------------|------|------------------------|
| Indium (CAS 7440-74-6) | TWA  | 0.1 mg/m <sup>3</sup>  |
| Lead (CAS 7439-92-1)   | TWA  | 0.05 mg/m <sup>3</sup> |
| Silver (CAS 7440-22-4) | TWA  | 0.1 mg/m <sup>3</sup>  |

##### US. ACGIH Threshold Limit Values

| Components             | Type | Value                  | Form           |
|------------------------|------|------------------------|----------------|
| Indium (CAS 7440-74-6) | TWA  | 0.1 mg/m <sup>3</sup>  |                |
| Lead (CAS 7439-92-1)   | TWA  | 0.05 mg/m <sup>3</sup> |                |
| Silver (CAS 7440-22-4) | TWA  | 0.1 mg/m <sup>3</sup>  | Dust and fume. |

##### Biological limit values

##### Argentina. Biological Exposure Indexes (BEIs) (Decree 351/1979 )

| Components           | Value    | Determinant | Specimen | Sampling Time |
|----------------------|----------|-------------|----------|---------------|
| Lead (CAS 7439-92-1) | 30 µg/dl | Plomo       | Blood    | *             |

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

##### ACGIH Biological Exposure Indices

| Components           | Value    | Determinant | Specimen | Sampling Time |
|----------------------|----------|-------------|----------|---------------|
| Lead (CAS 7439-92-1) | 200 µg/l | Lead        | Blood    | *             |

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

|                                  |                |
|----------------------------------|----------------|
| Appropriate engineering controls | Not available. |
|----------------------------------|----------------|

**Individual protection measures, such as personal protective equipment**

|                               |                |
|-------------------------------|----------------|
| <b>Eye/face protection</b>    | Not available. |
| <b>Skin protection</b>        |                |
| <b>Hand protection</b>        | Not available. |
| <b>Other</b>                  | Not available. |
| <b>Respiratory protection</b> | Not available. |
| <b>Thermal hazards</b>        | Not available. |

**9. Physical and chemical properties****Appearance**

|                       |                |
|-----------------------|----------------|
| <b>Physical state</b> | Solid.         |
| <b>Form</b>           | Not available. |
| <b>Colour</b>         | Not available. |

**Odour** Not available.

**Odour threshold** Not available.

**pH** Not available.

**Melting point/freezing point** 156.6 °C (313.88 °F) estimated

**Initial boiling point and boiling range** 1740 °C (3164 °F) estimated

**Flash point** Not available.

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit – upper (%)** Not available.

**Vapour pressure** 0.00001 hPa estimated

**Vapour density** Not available.

**Relative density** Not available.

**Solubility(ies)**

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Other information**

**Density** 11.00 g/cm<sup>3</sup> estimated

**Specific gravity** 11 estimated

**10. Stability and reactivity**

**Reactivity** Not available.

**Chemical stability** Not available.

**Possibility of hazardous reactions** Not available.

**Conditions to avoid** Not available.

**Incompatible materials** Not available.

**Hazardous decomposition products** Not available.

## 11. Toxicological information

### Information on likely routes of exposure

|                     |                |
|---------------------|----------------|
| <b>Inhalation</b>   | Not available. |
| <b>Skin contact</b> | Not available. |
| <b>Eye contact</b>  | Not available. |
| <b>Ingestion</b>    | Not available. |

**Symptoms related to the physical, chemical and toxicological characteristics** Not available.

### Information on toxicological effects

|  |                |
|--|----------------|
| <b>Acute toxicity</b>                    | Not available. |
| <b>Skin corrosion/irritation</b>         | Not available. |
| <b>Serious eye damage/eye irritation</b> | Not available. |

### Respiratory or skin sensitisation

|                                  |                |
|----------------------------------|----------------|
| <b>Respiratory sensitisation</b> | Not available. |
| <b>Skin sensitisation</b>        | Not available. |

**Germ cell mutagenicity** Not available.

### Carcinogenicity

#### ACGIH Carcinogens

Lead (CAS 7439-92-1)

A3 Confirmed animal carcinogen with unknown relevance to humans.

#### Argentina. OELs. Law 19587 (Establishing the Conditions for Health and Safety in the Workplace) and Decree 351/79 Article 61, Annex III, as amended

Lead (CAS 7439-92-1)

Confirmed animal carcinogen with unknown relevance to humans.

**Reproductive toxicity** Not available.

**Specific target organ toxicity - single exposure** Not available.

**Specific target organ toxicity - repeated exposure** Not available.

**Aspiration hazard** Not available.

## 12. Ecological information

### Ecotoxicity

| Product              |      | Species   | Test Results                      |
|----------------------|------|---|-----------------------------------|
| Lead Based Ribbon    |      |   |                                   |
| <b>Aquatic</b>       |      |   |                                   |
| Fish                 | LC50 | Fish  | 163.6346 mg/l, 96 hours estimated |
| <b>Components</b>    |      | <b>Species</b>                                      | <b>Test Results</b>               |
| Lead (CAS 7439-92-1) |      |   |                                   |
| <b>Aquatic</b>       |      |   |                                   |
| Fish                 | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 1.17 mg/l, 96 hours               |

**Persistence and degradability** Not available.

**Bioaccumulative potential** Not available.

**Mobility in soil** Not available.

**Other adverse effects** Not available.

## 13. Disposal considerations

**Disposal instructions** Not available.

**Waste from residues / unused products** Not available.

**Contaminated packaging** Not available.

## 14. Transport information

### ADR

|                  |        |
|------------------|--------|
| <b>UN number</b> | UN3077 |
|------------------|--------|

**UN proper shipping name** Environmentally hazardous substance, solid, n.o.s. (Lead)  
**Transport hazard class(es)**  
**Class** 9  
**Subsidiary risk** -  
**Label(s)** 9  
**Hazard No. (ADR)** 90  
**Tunnel restriction code** E  
**Packing group** III  
**Environmental hazards** Yes  
**Special precautions for user** Not available.

**RID**

**UN number** UN3077  
**UN proper shipping name** Environmentally hazardous substance, solid, n.o.s. (Lead)  
**Transport hazard class(es)**  
**Class** 9  
**Subsidiary risk** -  
**Label(s)** 9  
**Packing group** III  
**Environmental hazards** Yes  
**Special precautions for user** Not available.

**IATA**

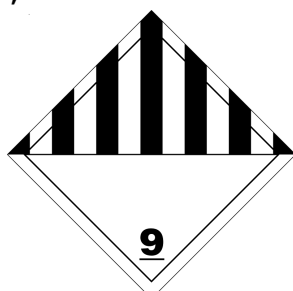
Not regulated as dangerous goods.

**IMDG**

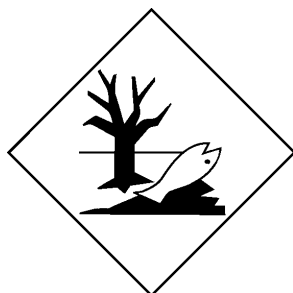
Not regulated as dangerous goods.

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

**ADR; RID**



**Marine pollutant**



**15. Regulatory information**

**Safety, health and environmental regulations specific for the product in question**

**Active Ingredients Not Permitted in Household Insecticides (Disposición 7292/1998, Annex VII, as amended through Disposicion ANMAT 2659/2008, May 2008)**

Not listed.

**Chemical Precursors. Decree 1095/96, Annex 1, Lists I, II, III (amended by Decree 1161/00 December 11, 2000)**

Not listed.

**CWC. Law 26.247 Implementation of the Convention on prohibition of development, production methods, stockpiling and use of chemical weapons and on their destruction (May 21, 2007)**

Not regulated

**Export Control Chemical Substances (2012)**

Not regulated

**Prohibited Chemical Substances**

Lead (CAS 7439-92-1)

**Restricted Chemical Substances**

Lead (CAS 7439-92-1)

**Small Operators of Controlled Chemicals, Annex I, Lists I and II (Resolution 1227/2010, September 29, 2010)**

Not regulated

**International regulations****Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Montreal Protocol**

Not applicable.

**Kyoto Protocol**

Not applicable.

**Basel Convention**

Not applicable.

**International Inventories**

| <b>Country(s) or region</b> | <b>Inventory name</b>  | <b>On inventory (yes/no)*</b> |
|-----------------------------|--|-------------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                           |
| Canada                      | Domestic Substances List (DSL)   | Yes                           |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                            |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                           |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                           |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                            |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                            |
| Korea                       | Existing Chemicals List (ECL)  | Yes                           |
| New Zealand                 | New Zealand Inventory  | Yes                           |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                           |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                           |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                           |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information**

|                    |                 |
|--------------------|-----------------|
| <b>Issue date</b>  | 08-October-2020 |
| <b>Version No.</b> | 01              |
| <b>Disclaimer</b>  | Not available.  |