



SAFETY DATA SHEET

MATERION

1. Identification

Product identifier	Samarium, pieces and solids		
Other means of identification			
SDS number	2LP		
Materion Code	2LP		
CAS number	7440-19-9		
Manufacturer/Importer/Supplier/Distributor information			
Manufacturer			
Company name	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	Laura Hamilton		
Emergency phone number	Chemtrec	800.424.9300	

2. Hazard(s) identification

Physical hazards	Not classified.		
Health hazards	Not classified.		
Environmental hazards	Not classified.		
OSHA defined hazards	Combustible dust		
Label elements			
Hazard symbol	None.		
Signal word	None.		
Hazard statement	The material as sold in solid form is generally not considered hazardous. However, if the process involves grinding, melting, cutting or any other process that causes a release of dust or fumes, hazardous levels of airborne particulate could be generated.		
Precautionary statement			
Prevention	Minimize dust generation and accumulation. Wear protective gloves/eye protection/face protection.		
Response	In case of fire: Use appropriate media for extinction.		
Storage	Store in a well-ventilated place. Keep container tightly closed.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	None.		

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Samarium, pieces and solids		7440-19-9	100

4. First-aid measures

Inhalation	Move into fresh air and keep at rest. If breathing is difficult, trained personnel should give oxygen.
Skin contact	Wash skin thoroughly with soap and water.
Eye contact	If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes. Continue rinsing.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting.
Most important symptoms/effects, acute and delayed	Not available.
General information	If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures

Suitable extinguishing media	Extinguish with foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and protective clothing.
Fire fighting equipment/instructions	During fire, gases hazardous to health may be formed. Dust may form an explosive mixture in the atmosphere.
General fire hazards	Decomposition in a fire produces toxic fumes.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear suitable protective clothing, gloves and eye/face protection.
Methods and materials for containment and cleaning up	Sweep or scoop up and remove. Vacuum or sweep up material and place in a disposal container. Collect in containers and seal securely.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent entry into drains.

7. Handling and storage

Precautions for safe handling	Avoid conditions which create dust. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume.
Conditions for safe storage, including any incompatibilities	Not available.

8. Exposure controls/personal protection

Occupational exposure limits	This substance has no PEL, TLV, or other recommended exposure limit.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Not available.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Use eye protection.
Skin protection	
Hand protection	Use protective gloves.
Other	Protective overgarments or work clothing must be worn by persons who may become contaminated with particulate during activities.
Respiratory protection	In case of inadequate ventilation, use respiratory protection.
Thermal hazards	Not available.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	Solid.
Physical state	Solid.
Form	Not available.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
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.
Vapor pressure	< 0.0000001 kPa (77 °F (25 °C))
Vapor 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	
Molecular formula	Sm
Molecular weight	150.36 g/mol

10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Not available.
Possibility of hazardous reactions	Not available.
Conditions to avoid	Dust clouds may be explosive under certain conditions. Avoid heat, sparks, open flames and other ignition sources.
Incompatible materials	Halogens and halogenated compounds. Strong acids. Strong oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

11. Toxicological information

Information on likely routes of exposure	
Inhalation	Not available.

Skin contact	Not available.
Eye contact	Not available.
Ingestion	Not available.
Symptoms related to the physical, chemical and toxicological characteristics	Not available.

Information on toxicological effects

Acute toxicity	Not available.
Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	Not available.
Respiratory or skin sensitization	
Respiratory sensitization	Not available.
Skin sensitization	Not available.
Germ cell mutagenicity	Not available.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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	No ecotoxicity data noted for the ingredient(s).
Persistence and degradability	Not available.
Bioaccumulative potential	Not available.
Mobility in soil	Not available.
Other adverse effects	Not available.

13. Disposal considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste from residues / unused products	Not available.
Contaminated packaging	Not available.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Yes

Classified hazard categories Combustible dust

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

16. Other information, including date of preparation or last revision

Issue date	10-30-2019
Version #	01
Disclaimer	Not available.