

[Strontium Ruthenate Sputtering Target](#)

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Linear Formula	SrO·RuO ₂
Pubchem CID	N/A
MDL Number	N/A
EC No.	N/A
IUPAC Name	N/A
Beilstein/Reaxys No.	N/A
SMILES	[Ru+4].[Sr+2].[O-2].[O-2].[O-2]
Inchl Identifier	InChI=1S/3O.Ru.Sr/q3*-2;+4;+2
Inchl Key	BDSNOFHMBGQEPK-UHFFFAOYSA-N
Signal Word	Warning
Hazard Statements	H315-H319
Hazard Codes	Xi
Precautionary Statements	P261-P305+P351-P501
Risk Codes	N/A
Safety Statements	N/A
Transport Information	N/A

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SAFETY DATA SHEET

Date Accessed: 04/29/2024

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SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #60862-59-1

Relevant identified uses of the substance:
Scientific research and development

Supplier details:
American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024

Tel: +1 310-208-0551
Fax: +1 310-208-0351

Emergency telephone number:
Domestic, North America +1 800-424-9300
International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Signal Word:
Warning



Hazard Statements:
H315 Causes skin irritation
H319 Causes serious eye irritation
Precautionary Statements:
P261 Avoid breathing dust/fume/vapor
P305+P351 If in eyes: Rinse cautiously with water for several minutes.
P501: Dispose of contents/container in accordance with local/regional/national/international regulations
HMIS
Health Ratings (0-4):
Health: 1
Flammability: 0
Physical: 1

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family:
Ceramic
Additional Names:
Strontium ruthenium oxide
Strontium Ruthenate(SrRuO_3):
Percentage: 100 wt%
CAS#: 60862-59-1
EC #: NIL

SECTION 4. FIRST AID MEASURES

General Treatment:
Seek medical attention if symptoms persist.
Special Treatment:
None
Important Symptoms:

None

Inhalation:

Remove victim to fresh air. Supply oxygen if breathing is difficult.

Ingestion:

Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.

Skin:

Wash affected area with mild soap and water.

Remove any contaminated clothing.

Eyes:

Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

SECTION 5. FIREFIGHTING MEASURES

Flammability:

Non-flammable, except as powder

Extinguishing Media:

Do not use water for metal fires –use CO₂, sand, extinguishing powder.

Spec. Fire Fighting

Procedure:

Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes.

See section 10 for decomposition products.

SECTION 6. ACCIDENTAL RELEASE MEASURES

If Material Is Released/Spilled:

Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation.

Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal.

Take care not to raise dust.

Environmental Precautions:

Isolate runoff to prevent environmental pollution.

SECTION 7. HANDLING AND STORAGE

Handling

Conditions:

Handle under dry protective gas.

Wash thoroughly after handling.

Storage Conditions:

Store in a cool dry place in a tightly sealed container. Store under dry inert gas. Store apart from materials and conditions listed in section 10.

Work/Hygienic

Maintenance:

Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.

Ventilation:

Provide sufficient ventilation to maintain concentration at or below threshold limit.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Permissible Exposure Limits:

N/A

Threshold Limit Value:

N/A

Special Equipment:

None

Respiratory Protection:

Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.

Protective Gloves:

Nitrile rubber, NBR 0.11mm thick

Eye Protection:

Safety glasses or goggles

Body Protection:

Protective work clothing. Wear close-toed shoes and long sleeves/pants.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Color:

Black

Form:

Sputtering target

Odor:

Odorless

Water Solubility:

Insoluble

Boiling Point:

N/A

Melting Point:

N/A
Flash Point:
N/A
Autoignition Temperature:
N/A
Density:
N/A
Molecular weight:
236.69 g/cc

SECTION 10. STABILITY AND REACTIVITY

Stability:
Stable under recommended storage conditions
Reacts With:
Reducing agents, Flammable substances, Organic materials, Metal powders, Oxidizing agents
Incompatible Conditions:
Water/moisture
Hazardous Decomposition Products:
Metal oxide fume

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects:
Eyes:
Causes serious eye damage
Skin:
May cause irritation
Ingestion:
May cause irritation
Inhalation:
May cause irritation
Chronic:
N/A
Signs & Symptoms:
N/A
Aggravated Medical Conditions:
N/A
Median Lethal Dose:
N/A
Carcinogen:
N/A

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity:
Low
Persistent Bioaccumulation Toxicity:

No
Very Persistent, Very Bioaccumulative:
No
Notes:
N/A

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, national,
and international regulations.

SECTION 14. TRANSPORT INFORMATION

Hazardous:
Not hazardous for transportation.
Hazard Class:
N/A
Packing Group:
N/A
UN Number:
N/A
Proper Shipping Name:
N/A

SECTION 15. REGULATORY INFORMATION

Sec 302 Extremely Hazardous:
No
Sec 304 Reportable Quantities:
N/A
Sec 313 Toxic Chemicals:
No

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). 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. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of

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