

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Identifier: (4N) 99.99% Strontium Vanadate Sputtering Target

Product Code: SR-VO-04-ST

CAS Number: 12435-86-8

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements
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Los Angeles, CA 90024
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+1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Signal Word: Danger



Hazard Statements:

H315 Causes skin irritation

H319 Causes serious eye irritation

H302+H332: Harmful if swallowed or if inhaled

Precautionary Statements:

P261 Avoid breathing dust/fume/vapor

P280: Wear protective gloves/protective clothing/eye protection/face protection

P361: Remove/Take off immediately all contaminated clothing

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –continue rinsing

P302+P350: IF ON SKIN: Gently wash with plenty of soap and water

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P405: Store locked up

P501: Dispose of contents/container in accordance with local/regional/national/international regulations

HMIS
Health Ratings (0-4):
Health: 3
Flammability: 0
Physical: 1

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Additional Names: Strontium vanadium oxide
Strontium vanadate (SrVO₃):
Percentage: 100 wt%
CAS#: 12435-86-8
EC #: 237-054-1

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:
Seek medical attention
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
Extinguishing Media:
No special restrictions –use suitable extinguishing agent for surrounding material and type of fire.
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: Pale yellow To Light grey

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

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: 389.12 g/mol

SECTION 10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions

Reacts With: Mineral acids, Oxidizing agents

Incompatible Conditions:

Water/moisture

Hazardous Decomposition Products:

Metal oxide fume

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes: May cause irritation

Skin: May cause irritation

Ingestion: Harmful

Inhalation: Toxic

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:

Hazardous for transportation as pieces and powder

Hazard Class: 6.1 Toxic substances

Packing Group: III

UN Number: UN3285

Proper Shipping Name:

Vanadium compound, n.o.s (Strontium vanadate)

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 invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2019 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.