

Stanford Advanced Materials Safety Data Sheet Strontium Nitride

1. Product and Company Identification

Trade Name: Strontium nitride

Chemical Formula: Sr₃N₂

Recommended Use: Scientific research and development

Manufacturer/Supplier: Stanford Advanced Materials

Address: 23661 Birtcher Dr. Lake Forest,

CA 92630 USA +1 (949) 407-8904

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24-Hour Emergency Contact: +1 (949) 407-8904

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H315 Causes skin irritation

H319 Causes serious eye irritation H335: May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P264: Wash skin thoroughly after handling

P271: Use only outdoors or in a well-ventilated area

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

protection

P302+P352: IF ON SKIN: Wash with soap and water

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

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

continue rinsing

P312: Call a POISON CENTER or doctor/physician if you feel unwell

P362: Take off contaminated clothing and wash before reuse P403+P233: Store in a well ventilated place. Keep container tightly

closed

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 3 Physical: 1

	2 Composition
3. Composition	
Chemical Family:	Ceramic
Additional Names:	None
Strontium nitride (Sr ₃ N ₂):	
Percentage:	100 wt%
CAS #:	12033-82-8
EC #:	NIL
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	Non
Important Symptoms:	e
* 1 1 2 * · · ·	None
Inhalation: Ingestion:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Skin:	Seek medical attention.
Eyes:	Wash affected area with mild soap and water. Remove any contaminated clothing.
	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Media: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder. Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled: Environmental Precautions:	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. Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. 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.

8. Exposure Controls and 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: Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Black

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

N/A

Whiter Solubility: Insoluble Boiling Point: N/A

Melting Point: 1030 °C
Flash Point: N/A
Autoignition Temperature: N/A
Density: N/A

Molecular weight: 290.87 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Ammonia, Oxidizing agents

Incompatible Conditions: Water/moisture
Hazardous Decomposition Products: Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes May cause irritation: May cause irritation

Highstion: May cause irritation

May cause irritation

May cause irritation

May cause irritation

Chronic: N/A

Signs & Symptoms: Aggravated N/A Medical Conditions: N/A

Median Lethal Dose: 2750 mg/kg for rat by mouth

1826 mg/kg for mouse by mouth

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: Packing 4.3 Substances which, in contact with water, release flammable gas

Group: II UN Number: UN2813

Proper Shipping Name: Water-reactive solid, n.o.s. (Strontium nitride)

15. Regulatory Information

Sec 302 Extremely Hazardous:

No
Sec 304 Reportable Quantities:

N/A
Sec 313 Toxic Chemicals:

No

16. Other Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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