

Section 1: Identification of the substances/mixture and of the company/undertaking

Product Name: Alpha Silicon Nitride

Synonym/Common Name: Silicon Nitride, Si₃N₄, E90, E95

Product Number: 185-1, 185-2 NA/EU

Restrictions on use: Not available

Supplier: Nuvo Silicon Products
637 Lowther Road,
Lewisberry, PA 17339
(507) 277-2068

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Preparation: Nuvo Silicon Products
Mike Allen

Section 2: Hazards Identification

Emergency Overview

HMIS Classification

Health hazard: 1

Flammability: 0

Physical hazards: 0

NFPA Rating

Health hazard: 1

Fire: 0

Reactivity Hazard: 0

Special hazard: 0

Potential Health Effects

Maybe harmful if inhaled.

GHS Classification:

Hazard Pictograms



Signal Word(s): Warning

Hazard statements:

- H319 Causes serious eye irritation
 H333 Maybe harmful if inhaled
 H335 May cause respiratory irritation

Precautionary statements:

- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
 P270 Use only outdoors or in well-ventilated areas.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Section 3: Composition/Information on ingredients

Material/Components	CAS#	CAS / IUPAC Name	EINECS#	%
Silicon Nitride	12033-89-5	Silicon Nitride	234-796-8	100

Section 4: First Aid Measures

Inhalation: If respiratory symptoms develop, move to fresh air. Seek immediate medical attention if symptoms persist.

Skin contact: Immediately wash with plenty of soap and water.

Eye contact: Immediately flush with water for 15 minutes. Get medical attention.

Ingestion: Rinse mouth with water. Get medical attention.

Chronic Health effects: Mutagenic, teratogenicity, and Developmental potential affects not available.

Section 5: Firefighting measures

General Fire Hazard: Bulk of material is not believed to ignite under normal storage conditions.

Extinguishing media: Use alcohol resistant foam, dry chemical or carbon dioxide.

Advice for firefighters: Self-contained breathing apparatus when handling powder dust.

Flammable limits:

Lower: Not applicable

Upper: Not applicable

Section 6: Accidental release measures

Actions to take for leaks and spills: Collect in a suitable dry container for re-use, recycling or disposal in accordance with local and regional authority requirements.

Environmental precautions: Do not allow product to enter drain. Clean up spills immediately to avoid environmental release.

Methods and material for containment and cleaning up: Sweep, vacuum or absorb material while minimizing dust generation. Use proper PPE when handling; see section 7 and 8 for handling and exposure controls.

Section 7: Handling and Storage

Handling: Good industrial hygiene practices should be observed. Avoid formation of dust. Use only under conditions of good local ventilation. Avoid contact with skin and eyes. Do not eat, drink, smoke or apply cosmetics while using this material.

Storage: Locate in a closed container in a dry and non-draft area to avoid dust production.

Section 8: Exposure controls

Respiratory Protection: Respiratory protection is not required for normal use unless potential dust production. Be sure to use a certified or an approved respirator in the event.

Eye Protection: Use chemical goggles or safety glasses. Maintain eye wash station.

Skin Protection: Avoid exposed skin and use protective clothing resistant to this material.

Other Clothing: Selection of specific items such as face shield, respirator, self-contained breathing apparatus, gloves, apron, lab coat, boots, or full body will depend on operation.

Engineering Controls: Work in a well-ventilated area. If operations generate dust, mist or fumes, provide adequate general and local exhaust ventilation to maintain airborne concentrations below applicable occupational exposure limits.

Section 9: Physical and Chemical properties

Appearance:	Powder	Melting Point:	>1400C (est)
Color:	Off White/Lt Grey	Boiling Point:	Not available
State:	Solid	Flash Point:	Not available
Odor Characteristics:	Not available	Freezing Point	Not applicable
pH	Not applicable	Percent Volatility:	Not applicable
Viscosity:	Not applicable	Evaporation rate (BAc=1):	Not applicable
Specific Gravity (Water = 1)	>2.0	Solubility in Water:	Slightly soluble
Vapor Density (Air = 1)	Not applicable	Solubility in Oil:	Slightly soluble
Vapor Pressure:	Not applicable	Solubility in Acetone:	Not available

Section 10: Stability and reactivity

Chemical stability: Stable under recommended storage conditions

Possibility of hazardous reactions: Not available

Conditions to avoid: Not available

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: Not available

Section 11: Toxicological Information

Toxicological: No specific toxicological data is available for this material.

Carcinogenicity: Not listed as a carcinogen source by NTP, IARC, ACGIH, OSHA, or CA Prop 65.

Section 12: Ecological Information

Ecotoxicity: There is no data available specifically for this material.

Persistence and degradability: Not available

Bio accumulative potential: Not available

Mobility in soil: Not available

Results of PBT and vPvB assessment: Not available

Other adverse effects: Not available

Section 13: Disposal considerations

Waste treatment methods: Source recyclable solutions.

Packaging disposal: Packing material, utilities such as brooms, dust pans and other collection devices in contact with the material may be reused once rinsed into containment. Material collected then shall be processed for reuse or reclamation.

Sewage disposal: Do not release into sewer

Disposal: Final disposal of this material should be in accordance with local and national regulation.

Section 14: Transport information

UN number: Not Applicable

UN proper shipping name: Not Applicable

Transport hazard class (es): Not Applicable

Packing group: III

Environmental hazards: Marine pollutant; No

Special precautions for user: Dust inhalation hazard

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

Section 15: Regulatory Information

OSHA Hazards

Maybe harmful if inhaled

SARA 302 Components: none

SARA 313 Components: none

SARA 311/312 Hazards: No SARA hazards.

Pennsylvania, Massachusetts, and New Jersey Right to Know Components:

Component(s)	CAS#
N/A – none listed	N/A

California Prop. 65: None containing

Chemical safety assessment: No

US Federal Regulations

Listed in the TSCA inventory: None found

European/International Regulations

Hazard symbol(s): Warning (General)

WGK (Water Danger/Protection):

Listed Dangerous Substances: Not available. Believed to be classified as WGK3.

Section 16: Other information

MSDS creation date: 01/18/2017

Revision data: 05/08/2017

Full text and abbreviations in the sheet:

- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances

Relevant R (Risk) phrases:

R20 Harmful (maybe) by inhalation

Relevant S (Safety) phrases:

S 36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Relevant H (Hazard) statements: See section 2 for number and full description.

Relevant P (Precautionary) statements: See section 2 for number and full description.

Training instructions: Not available

Recommended restrictions on use (non statutory recommendations by supplier): Not available

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