

MATERIAL SAFETY DATA SHEET

FOR EMERGENCY SOURCE INFORMATION

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SECTION 1 - Chemical Product and Company Identification

VESTA Si Europe AB

Industriomr. 3

SE-840 10 LJUNGAVERK

SWEDEN

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CAS Registry Number: 12033-89-5 CAS Name: Silicon Nitride

Substance: SILICON

TRADE NAME/ TRISILICON TETRANITRIDE; SILICON NITRIDE (Si₃N₄)

SICONIDE[™] (our trade mark)

Area of Use: Raw material when manufacturing engineering ceramics and

other industrial applications.

SECTION 2 - Composition, Information on Ingredients

Component Substance: SILICON NITRIDE

Component Per Cent: Min. 98 % CAS Registry Number: 12033-89-5

Component Substance: SILICON DIOXIDE

Component Per Cent: Max. 2 % CAS Registry Number: 7631-86-9

SECTION 3 - Hazards Identification

Potential Health May cause irritation when inhaling.

Effects Inhalation:

Points of Environ-

mental Hazard:

No information is available.

Points of Other

Hazard:

No information is available.



SECTION 4 - First Aid Measures

Inhalation: Remove from exposure area to fresh air immediately.

Skin Contact: Remove contaminated clothing and shoes. Wash with soap or

mild detergent and large amounts of water.

Eye Contact: Wash eyes immediately with large amounts of water.

Ingestion: Rinse mouth with water.

SECTION 5 - Fire Fighting Measures

Extinguishing Media: Extinguish using agent suitable for type of surrounding fire

Firefighting: No acute hazard. Move container from fire area if possible.

Avoid breathing vapours or dust; keep upwind

Hazardous Combus-

tion Products:

Thermal decomposition products may include toxic oxides of

nitrogen.

SECTION 6 - Accidental Release Measures

Occupational Spill: For large spills, sweep up with a minimum dusting

Personal protective

Equipment:

If needed use protective inhalation and protective gloves

SECTION 7 - Handling and Storage

Handling: Take normal care

Storage: Keep product dry

Unsuitable Material: No special restrictions



SECTION 8 - Exposure Controls, Personal Protection

Inhalation: If needed use suitable protective inhalation.

Skin Contact: Protective clothes and protective gloves are recommended.

Eye Contact: Wear dust-resistant safety goggles. Eyewash provided.

Hygiene Limiting

Value:

5 mg/m³ OSHA TWA (respirable dust).

Ventilation: Provide local exhaust ventilation system to meet published ex-

posure limits.

SECTION 9 - Physical and Chemical Properties

Description: White to grey powder

Smell: Possible to smell ammonia

Melting Point: 1900°C - sublimation

Specific Gravity: 3.440 kg/m³

Bulk Density: 600 - 1,000 kg/m³ depending on milling grade

Water Solubility: Insoluble Explosion area in air: Not applicable

SECTION 10 - Stability and Reactivity

Hazard Fragmentary: Stable under normal temperatures and pressures.

Hazard Reactivity: None

Conditions to Avoid: Prevent dispersion of dust in air.

Hazardous Decompo Thermal decomposition products may include toxic oxides of

sition products: nitrogen



SECTION 11 - Toxicological Information

Acute Toxicity: No information available

Health Effects: Inhalation:

Fine dust particles may irritate and dehydrate mucous

membranes.

Skin contact: Dust may irritate and dehydrate skin. Eye contact: Dust may irritate and cause dryness.

Ingestion: Dust may irritate and dehydrate mucous membranes.

Chronic effects: No chronic effects are known. Silicon Nitride powder is not

known to be a reproductive toxin or mutagen.

SECTION 12 - Ecological Information

Ecological information is not yet available for this record

SECTION 13 - Disposal Considerations

The product is delivered in plastic or steel drum, lined with PE bag. Before sending the drum to recovery plant, take care that all the product is emptied. If needed, use water.

SECTION 14 - Transport Information

No other information is currently available for this record.

SECTION 15 - Regulatory Information

No other information is currently available for this record.

SECTION 16 - Other Information

No other information is currently available for this record.