



## MATERIAL SAFETY DATA SHEET

Revision Date: July 29, 2016 Revision No: 14 Valid until Dec. 2018

### SECTION 1 - Chemical Product and Company Identification

Product name:	<b>SICONIDE®</b> (our trade mark)
Application of the product:	Raw material when manufacturing engineering ceramics and other industrial applications.
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### SECTION 2 - Hazards Identification

<b>Potential Health Effects Inhalation:</b>	May cause irritation when inhaling.
<b>Points of Environmental Hazard:</b>	No information is available.
<b>Points of Other Hazard:</b>	No information is available.



### SECTION 3 – Composition/Information on Ingredients

Synonyms/Trade names:	TRISILICON TETRANITRIDE; SILICON NITRIDE (Si <sub>3</sub> N <sub>4</sub> ) <b>SICONIDE®</b> (our trade mark)
IUPAC Name:	Silicon Nitride
EC- Registry Number:	234-796-8
CAS Registry Number:	12033-89-5
Component Substance:	SILICON NITRIDE
Component Per Cent:	Min. 98 %
Name:	Silicon dioxid
EC-Registry Number:	231-545-4
CAS Registry Number:	7631-86-9
Component Substance:	SILICON DIOXIDE
Component Per Cent:	Max. 2 %

### SECTION 4 - First Aid Measures

<b>Inhalation:</b>	Remove from exposure area to fresh air immediately.
<b>Skin Contact:</b>	Remove contaminated clothing and shoes. Wash with soap or mild detergent and large amounts of water.
<b>Eye Contact:</b>	Wash eyes immediately with large amounts of water.
<b>Ingestion:</b>	Rinse mouth with water.

### SECTION 5 - Fire Fighting Measures

<b>Extinguishing Media:</b>	Extinguish using agent suitable for type of surrounding fire
<b>Firefighting:</b>	No acute hazard. Move container from fire area if possible. Avoid breathing vapours or dust; keep upwind
<b>Hazardous Combustion Products:</b>	Thermal decomposition products may include toxic oxides of nitrogen.



## SECTION 6 - Accidental Release Measures

<b>Occupational Spill:</b>	For large spills, sweep up with a minimum dusting
<b>Personal protective Equipment:</b>	If needed use protective inhalation and protective gloves

## SECTION 7 - Handling and Storage

<b>Handling:</b>	Take normal care. Avoid handling that generates dust buildup.
<b>Storage:</b>	Keep product dry
<b>Unsuitable Material:</b>	No special restrictions

## SECTION 8 - Exposure Controls, Personal Protection

<b>Inhalation:</b>	If needed use suitable protective inhalation.
<b>Skin Contact:</b>	Protective clothes and protective gloves are recommended.
<b>Eye Contact:</b>	Wear dust-resistant safety goggles. Eyewash provided.
<b>Hygiene Limiting Value:</b>	5 mg/m <sup>3</sup> OSHA TWA (respirable dust).
<b>Ventilation:</b>	Provide local exhaust ventilation system to meet published exposure limits.

## SECTION 9 - Physical and Chemical Properties

<b>Description:</b>	White to grey powder
<b>Smell:</b>	Possible to smell ammonia
<b>Molecular Weight:</b>	140.28
<b>Molecular Formula:</b>	Si <sub>3</sub> N <sub>4</sub>
<b>Physical State:</b>	Solid
<b>Melting Point:</b>	1900°C - sublimation
<b>Specific Gravity:</b>	3.440 kg/m <sup>3</sup>
<b>Bulk Density:</b>	600 - 1,000 kg/m <sup>3</sup> depending on milling grade
<b>Water Solubility:</b>	Insoluble
<b>Explosion area in air:</b>	Not applicable

## SECTION 10 - Stability and Reactivity

<b>Hazard Fragmentary:</b>	Stable under normal temperatures and pressures.
<b>Hazard Reactivity:</b>	None
<b>Conditions to Avoid:</b>	Prevent dispersion of dust in air.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition products may include toxic oxides of nitrogen.



## SECTION 11 - Toxicological Information

<b>Acute Toxicity:</b>	No information available
<b>Health Effects:</b>	Inhalation: Fine dust particles may irritate and dehydrate mucous membranes.
<b>Skin contact:</b>	Dust may irritate and dehydrate skin.
<b>Eye contact:</b>	Dust may irritate and cause dryness.
<b>Ingestion:</b>	Dust may irritate and dehydrate mucous membranes.
<b>Chronic effects:</b>	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.

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