



SUNNY 100 GLOBAL INDUSTRY LIMITED

104# building No.1, Wanshijia center, Shuyuan South Road, Tianxin District, Changsha City, Hunan Province, China

MATERIAL SAFETY DATA SHEET

Section 1 Product Information Rev. Level: B

Trade Name and Synonyms: Ferro Silicon Nitride

Chemical Family: Metal Nitride

Formula: Si₃N₄, Fe etc

CAS No.: Si₃N₄ (12033-89-5) Fe(7439-89-6)

Section 2 Product Description and Hazardous Ingredients/Identify Information

Material or Component	Percent By Weight	OSHA PEL	ACGIH TLV
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Silicon	Max .58	5.0 respirable dust (see appendix D, VOSHA 29 CFR 1910)	
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Nitrogen (N)	Max 33		
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Ferrum(Fe)	12-16%		
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Section 3 Physical Data

Melting Point: Not applicable	Boiling Point: Not applicable
Specific Gravity (H ₂ O = 1): 3.2	Vapor Pressure: Not applicable
% Volatile by Volume: Not applicable	Vapor Density (Air=1): Not applicable
Evaporation Rate: Not applicable	Solubility in Water: Insoluble
Molecular Weight: 140	Appearance and Odor: White-Grey powder, odorless

Section 4 Fire and Explosion Hazard Data

Flash Point F (C): Not applicable	Flammable Limits: Not applicable
Extinguishing Media: Not applicable	Unusual Fire and Explosion Hazards: Not applicable
Special Fire Fighting Procedures: Not applicable	

Section 5 Health Hazard Data

Usual Route(s) of Entry: Inhalation, ingestion, eye contact, skin contact

Effects of Overexposure: Dust inhalation may cause mild irritation of the nose and throat. Skin and eye contact may cause irritation due to abrasive action of the dust. Current scientific evidence indicated no adverse effects are likely from accidental indigestion of small amounts of material.

Emergency and First Aid Procedures Inhalation: Dust may cause respiratory tract irritation. Repeated or prolonged breathing of particles of respirable size may cause severe respiratory disease. Effects may include inflammation of the lung, chest pain, "Pneumoconiosis". Pre-existing medical conditions may be aggravated by exposure; specifically, bronchial hyper reactivity and chronic bronchial or lung disease.

Skin Contact: If irritation occurs, flush with copious amount of water. If irritation persists, seek medical attention.



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Ingestion: If a substantial amount is swallowed dilute with a large amount of water, induce vomiting and seek medical attention.

Carcinogenic Assessment: (NTP Annual Report, IARC Monographs, etc.)

This material has not been identified as known or suspected carcinogenic by NIP, IARC or OSHA. From the literature no effects on acute hazards as to the health are known; however, as a precaution we recommend to observe the handling regulations for SiO₂-containing materials.

Section 6 Reactivity Data

Stability: Decomposition at about 1.700 centigrade Incompatibility: Not applicable

Hazardous Polymerization: Will not occur Hazardous Decomposition Products: None

Conditions to Avoid: Not applicable

Section 7 Spill or Leak Procedures

Steps to be taken in Case Material is Released or Spilled: Remove all sources of ignition. Ventilate area of spill. Clean up using methods, which avoid dust generation such as vacuuming (with appropriate filter to prevent airborne dust levels, which exceed to PEL or TLV). If airborne dust is generated, use an appropriate NIOSH approved respirator.

Waste Disposal Method: Dispose of in accordance with appropriate government regulations. May be sold as scrap for reclaim or returned to the producer.

Section 8 Disclaimer

The information contained herein is based upon data provided by manufacturers and suppliers of raw materials used in the manufacture of silicon nitride. The information is offered in good faith as accurate and correct, but no representations, guarantees, or warranties of any kind are made as to its accuracy or completeness, suitability for particular applications, hazards connected with the use of the product, or the results to be obtained from the use of thereof. User assumes all risk and liability of any use or handling of any material beyond Lovejoy's control. Variations in methods, conditions, equipment used to store, handle, or process the material, and hazards connected with the use of the product are solely the responsibility of the user and remain at its sole discretion.

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IN CASE OF QUESTIONS PLEASE CALL

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