

# Henan Superior



ABRASIVES IMPORT & EXPORT CO., LTD.

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## ***MATERIAL SAFETY DATA SHEET***

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### **1. MICROSILICA $\geq$ 85%, 92%, 94%, 96%**

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### **2. COMPOSITION**

Other Names: Silica Fume, Volatilised Silica, Amorphous Silica, Fumé de Silice

CAS No: 69012-64-2

Einecs No: 273-761-1

Hazardous Ingredients: Microsilica only contains <0.61 crystalline quartz

### **3. HAZARDS ID**

Unlikely to cause harm during handling and storage.

### **4. FIRST AID**

After spillage: Avoid exposure to dust from Microsilica

Ingestion: May cause irritation and dehydration of mucous membranes. Drink water.

Inhalation: Remove exposed person from dusty area. May cause irritation and dehydration of mucous membranes.

Skin contact: Wash with water/mild detergent. May cause mechanical irritation.

Eye contact: Flush eyes with water/saline solution. If discomfort persists, obtain medical attention, May cause mechanical irritation.

## **5. MEASURES IN CASE OF FIRE**

Microsilica is not combustible. In case of fire cool with water.

## **6. ACCIDENTAL RELEASE**

Avoid exposure to dust. Collect in a suitable container.

## **7. STORAGE AND HANDLING**

Handling: Ensure good ventilation during handling – avoid dust generation.

Protective Equipment: Use respiratory protection and eye protection.

## **8. EXPOSURE CONTROLS**

Occupational Exposure Limits (HSE, EH 40/97)	8 hour TWA
Silica Amorphous (SiO <sub>2</sub> )	mg/m <sup>3</sup>
Total inhalable	6
Total respirable	2.4
Silica crystalline (SiO <sub>2</sub> )	
Total respirable	0.3 max

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	Ultrafine amorphous powder
Colour	Grey
Odour	None
Melting Point	2000°C
Solubility in H <sub>2</sub> O	Insoluble
Solubility (organic solvents)	Insoluble
SG	2.2 – 2.3
BD	300 – 700 kg/m <sup>3</sup>

Specific surface	> 20 m <sup>2</sup> /g
Particle size	0.5 micron (ave)

## **10. STABILITY AND REACTIVITY**

Microsilica reacts with hydrofluoric acid (HF) forming toxic gas (SiF<sub>4</sub>).

Heating Microsilica above 500°C can form crystalline SiO<sub>2</sub> (Cristobalite/Tridynite) which may cause pulmonary fibrosis/silicosis.

## **11. TOXICOLOGY**

See part 4 and 10.

## **12. ECOLOGICAL INFORMATION**

Microsilica is not characterised as being dangerous to the environment.

## **13. DISPOSAL**

Disposal of Microsilica must comply with the requirements of YB/T 115-2004.

## **14. TRANSPORT**

IMDG/IMO, ADR/RID, ICAO/IATA – not classified.

## **15. REGULATORY INFORMATION**

The product is not subject to classification.

## **16. OTHER INFORMATION**