1. MICROSPILCA \(\geq 85\%, 92\%, 94\%, 96\%\)

Contact: Henan Superior Abrasives Import & Export Co., Ltd
Address: No. 5 Jianxin Street 27 District, Zhengzhou, Henan, China.
Tel: 86 371 5663 6667
Fax: 86 371 6389 8989
Email: info@superior-abrasives.com

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 (SiO₂) mg/m³
Total inhalable 6
Total respirable 2.4
Silica crystalline (SiO₂)
Total respirable 0.3 max

9. PHYSICAL AND CHEMICAL PROPERTIES
Form Ultratine amorphous powder
Colour Grey
Odour None
Melting Point 2000°C
Solubility in H₂O Insoluble
Solubility (organic solvents) Insoluble
SG 2.2 – 2.3
BD 300 – 700 kg/m³
Specific surface $> 20 \text{ m}^2/\text{g}$
Particle size 0.5 micron (ave)

10. STABILITY AND REACTIVITY
Microsilica reacts with hydrofluoric acid (HF) forming toxic gas (SiF₄).
Heating Microsilica above 500°C can form crystalline SiO₂ (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