

1. Product identification and company identification

1.1 Name of product:

MICROSIL® , silica flour

M 4, M 6, M 8, M 10, M 300, M 350, M 500

1.2 Application of product:

Raw material for ceramic, construction chemicals, enamel, glass, glass fiber, glue, mortar, painting industry, etc.

1.3 Supplier

Euroquarz GmbH	Tel.: ++ 49 2362/2005-0	EUROQUARZ GmbH	Tel.: ++ 49 35205/527-0
Kirchhellener Allee 53	Fax: ++ 49 2362/2005-99	Würschnitzer Str. 2	Fax: ++ 49 35205/527-12
D-46282 Dorsten	verkauf@euroquarz.de	D-01936 Laußnitz	qwo@euroquarz.de

1.4 Emergency contact:

Mr. Vespermann ++ 49 170 / 56 38 731

Mr. Natusch ++ 49 174 / 31 74 571

2. Composition / information on ingredients

CAS-No.	Ingredients	Conc. %	Symbols	R-Phrases	EC-No.
14808-60-7	alpha quartz (crystalline SiO ₂)	99	Xn	R 48/20	238-878-4

3. Possible hazard risks

3.1 Classification according to

- directive 67/548/EEC (hazardous substances): not hazardous
- directive 98/24/EC (occupational safety): not hazardous

3.2 Danger for environment: no danger; silica ist natural product.

3.3 Danger for human health: MICROSIL contains 5 – 30 % silica dust in the alveolar fraction of $\leq 5 \mu\text{m}$. The alveolar fraction of crystalline silica dust ($\leq 5 \mu\text{m}$) is hazardous, when in the workplace atmosphere and inhaled for a long time. Exposure to dust should be monitored and managed.

3.4 Therefore we label MICROSIL following the pattern of the Directive 67/548/EEC with the hazard symbol:



Harmful

3.5 R-phrases: R 48/20 – harmful: danger of serious damage to health by prolonged exposure through inhalation.

3.6 S-phrases: S 22 – do not breathe dust
S 38 – in case of insufficient ventilation, wear suitable respiratory equipment.**4. First aid measures**

No actions to be avoided, nor special instructions for rescuers.

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|-----|---------------------|--|
| 4.1 | After skin-contact: | no first aid measure necessary |
| 4.2 | After eye-contact: | careful and efficient rinse with copious quantities of clear water |
| 4.3 | After ingestion: | no first aid measure necessary |
| 4.4 | After inhalation: | no first aid measure necessary, breathe fresh air and consult a physician. |

5. Fire fighting measures

Silica flour does not burn. No hazardous releases in case of fire.

6. Accidental release measures

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|-----|----------------------------|---|
| 6.1 | Personal precautions: | avoid dust formation and dust exposure |
| 6.2 | Environmental precautions: | no special requirement |
| 6.3 | Methods for cleaning up: | Avoid dry sweeping and use water spraying or ventilated vacuum cleaning system to prevent dust formation. |

7. Handling and storage

- 7.1 Handling: prevent dust formation
- 7.2 Storage: no requirement and no restrictions
Ensure trapping of dust arising during the loading of silos. Keep containers closed and store the bagged products in a way preventing accidental bursting.
- 7.3 Specific uses: When mixing with other substances the above mentioned safe handling advice shall apply.

8. Exposure controls / personal measures

- 8.1 Occupational exposure limits (OEL): In Germany 0.15 mg/m³ respirable crystalline silica dust in the workplace atmosphere. Comply with national regulations.
- 8.2 Occupational exposure controls: Provide appropriate exhaust ventilation and filtering at the places where dust can be generated.
Wash hands before breaks and at the end of the workday.
Remove and wash soiled clothing.
- 8.2.1 Respiratory protection: In case of exposure to dust over occupational exposure limits wear a personal respirator in compliance with national legislation.
- 8.2.2 Eye protection: In case of exposure to dust over regulatory limits wear safety glasses with side-shields.

9. Physical and chemical properties

- 9.1 General information
- Look: white powder
- State of aggregation: solid
- Delivery condition: solid
- Smell: odourless
- 9.2 Significant details for health and environmental protection
- pH-value: not applicable
- Melting point: 1,620°C – 1,720°C
- Sintering point: 1,400 – 1,470°C
- Flash point: not applicable
- Flammability: not applicable
- Explosion risk: not applicable
- Oxidising properties: not applicable
- Vapour pressure: not applicable
- Density: 2.65 g/cm³ (20°C)
- Bulk density: 0.9 – 1.25 g/cm³
- Solubility in water: none
- Solubility in fluorhydric acid: yes
- Coefficient of dispensation n-octanol/water: not applicable
- Viscosity: not applicable
- Vapour density: not applicable
- Velocity of vaporization: not applicable
- 9.3 Further particulars: none

10. Stability and reactivity**Chemically stable, no particular incompatibility**

- 10.1 Conditions to be avoided: none
- 10.2 Substances to be avoided: none
- 10.3 Hazardous decomposition products:
- 10.3.1 Necessary stabiliser: not applicable
- 10.3.2 Possible exothermal reaction: none
- 10.3.3 Relevant effects for sureness by changing state of aggregation: not applicable
- 10.3.4 Hazardous decomposition products by contact with water: not applicable
- 10.3.5 Possible instable decomposition products: not applicable

11. Toxicological information

Silica flour is non-toxic.

12. Ecotoxicological information

No specific adverse effect of silica flour known. Silica is a naturally occurring substance widely spread on earth.

13. Disposal considerations

- 13.1 Waste type: household waste
13.2 Certificate obligation : none
13.3 Packaging waste management: The re-use of packaging is not recommended. Use recycling systems. Avoid dust formation from residues in the packaging.

14. Transport information

No hazardous good in terms of international transport regulations. No special transport information. Avoid dust spreading.

15. Regulatory information

- 15.1 Regulations on Hazardous Substances: not subject to label regulations
15.2 Regulations on Occupational Exposure: see chapter 8.

16. Other Information

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.