

Material Safety Data Sheet (MSDS in EN ISO 11014 format)

SILICA SAND

Version 02, page 1 of 4
Revision date: 01.01.2005

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1. Identification of the substance or preparation

Silica Sand, Foundry Sand, Filtering Sand, Traction Sand, Blasting Sand, Filler Material

1.2. Use of the substance / preparation

Main applications of silica sand - non-exhaustive list:

Metal casting, water filtering or waste water management, surface preparation, traction sand for railways, filling,

1.3. Company / undertaking identification

Producer : SILTAS AS
Address : Alemdag Cad, Yayol Sok, No:10/20, Camlica, Istanbul, TURKEY
Phone : +90 216 521 1600
Fax : +90 216 335 5771

1.4. Emergency telephone

+90 216 335 7009

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical : SiO₂ (ca. 99 %)
Mineralogical : Alpha quartz
E.I.N.E.C.S. : 238-878-4
C.A.S. : 14808-60-7
EU-classification : No classification

3. HAZARD IDENTIFICATION

Although silica sand is not hazardous considering its granulometry, any respirable crystalline silica generated by processing silica sand may cause health effects. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Exposure to dust should be monitored and managed.

4. FIRST AID MEASURES

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

Eye contact

wash with copious quantities of water

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Ingestion

non-toxic

Inhalation

No special first aid measures, breathe fresh air and consult a physician.

Skin contact

No special first aid measure necessary.

5. FIRE-FIGHTING MEASURES

Does not burn. No hazardous releases in case of fire.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Avoid dust formation. In case of exposure to dust over regulatory limits, wear a personal respirator in compliance with national legislation.

Environmental precautions

No special requirement

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****Avoid dust formation.**

Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment. Your supplier can advise you on safe handling, please contact him.

7.2. Storage**Technical measures / Precautions**

Ensure trapping of dust produced during the loading of silos. Keep containers closed and store the bagged products in a way preventing accidental bursting.

7.3. Specific use(s)

When mixing with other substances the above mentioned safe handling advice shall apply.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1. Exposure limit values**

Respect regulatory provisions for dust (total dust and respirable crystalline silica dust).

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8.2. Exposure controls

8.2.1. Occupational exposure controls

Provide appropriate exhaust ventilation and filtering at the places where dust can be generated.

8.2.1.1. Respiratory protection

In case of exposure to dust over regulatory limits wear a personal respirator in compliance with national legislation.

8.2.1.2. Eye protection

Wear safety glasses with side-shields

8.2.2. Environmental exposure controls

No special requirements. There is no reported ecotoxicity for silica, a naturally occurring substance widely spread on earth.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance

solid, white, granular

Odour

odourless

9.2. Important health, safety and environmental information

Density : 2.65 g/cm³
SiO₂ % : ca. 99 % (cfr. technical data sheet)
Grain shape : sub-angular
Particle size range : cfr. technical data sheet
Solubility in water : negligible
Solubility in fluorhydric acid : yes

9.3. Other information

Molecular weight : 60.1

10. STABILITY AND REACTIVITY

Chemically stable, no particular incompatibility

11. TOXICOLOGICAL INFORMATION

Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by the deposition in the lungs of fine respirable particles of crystalline silica.

The IARC (International Agency for Research on Cancer) believes that crystalline silica inhaled from occupational sources can cause lung cancer in human. It however pointed out that not all occupational conditions nor all crystalline silica types were to be incriminated.

There is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. According to current state of the art worker protection against silicosis would be consistently assured by respecting present regulatory occupational limits.

12. ECOTOXICOLOGICAL INFORMATION

No specific adverse effect known.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products

Can be landfilled in compliance with local regulations. The material should be buried to prevent airborne respirable dust being emitted as far as respirable fraction has been created when processing sand. Where possible, recycling should be preferred to disposal.

Packaging

No specific requirements.

14. TRANSPORT INFORMATION

No special precaution required under the regulation on transport of dangerous goods. Avoid dust spreading.

15. REGULATORY INFORMATION

The substance has not been classified at the EU level, under the dangerous substances and preparations regulation.

16. OTHER INFORMATION

Third party materials

Insofar as materials not manufactured or supplied by Siltas AS are used in conjunction with, or instead of Siltas AS materials, it is the responsibility of the customer himself, to obtain from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them, no liability can be accepted in respect of the use of Siltas AS in conjunction with other materials.

Liability

Such information is the best of Siltas AS knowledge and belief accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy itself as to the suitability and completeness of such information for their own particular use.

Dry sand blasting

According to national regulations in EU member states sand containing more than 1 up to 5 % free crystalline silica cannot be used for dry sand blasting.

The European producers support this as an overall recommendation.

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