



Silica Sand

- Safety Data Sheet -

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Safety Data Sheet

1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product name: Silica Sand

Product Code: 3211, 3402, 3404, 3406, 3409, 3405, 3407, 3802

Synonyms: Quartz; Crystalline silica sand; Silicon Dioxide; Quartz sand

Trade Names: Water Worn sand; Beach Dune Natural; Beach Dune White, Filter Media

Details of the supplier of the safety data sheet:

Specialist Aggregates Ltd - Rydal House - Colton Road - Rugeley - WS15 3HF

T: 01889 580 660 (Not available outside office hours)

W: www.SpecialistAggregates.com **E:** enquiries@SpecialistAggregates.com

Use of Substance / Preparation:

Main applications of silica sand – Non-exhaustive list; Abrasives*, foundry sand, filler for textured coatings and glues, mortar sand, filtration, sports and leisure pitches, specialist construction.

***NOTE:** Sand Blasting: Control of Substances Hazardous to Health Regulations 202, sand and other substances containing free silica can not be used as an abrasive for blasting articles in any blasting apparatus.



2 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical	SiO ₂ (Circa 99%)
Mineralogical	Crystalline Silica
E.I.N.E.C.S. No	238-878-4
C.A.S.No	14808-60-7
EU-classification	Not Classified
IUPAC Name	Silicon Dioxide

3 Hazards Identification

The grain size distribution of silica sand means that it is not hazardous as defined by Regulation EC 1272/2008 and in Directive 67/548/EEC

Respirable silica dust generated by processing and handling of silica sand may cause health effects.

Prolonged and/or massive inhalation of respirable silica dust may cause lung fibrosis commonly referred to as silicosis.

Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable silica dust should be monitored and controlled.

This product contains less than 1% respirable silica.



4 FIRST AID MEASURES

NO ACTIONS ARE TO BE AVOIDED, NOR ARE THERE ANY SPECIAL INSTRUCTIONS FOR RESCUERS

DESCRIPTION OF FIRST AID MEASURES

- Inhalation:** No special first aid measures – Remove to fresh air – consult physician
- Ingestion:** Non-toxic
- Skin contact:** No special first aid measures necessary
- Eye contact:** Wash with copious quantities of water

5 FIREFIGHTING MEASURES

Does not burn. No hazardous releases in case of fire

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Avoid airborne dust generation. In case of unavoidable exposure to dust concentrations in excess of regulatory limits, wear personal respirator in compliance with national legislation.

ENVIRONMENTAL PRECAUTIONS

No special requirements

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Avoid dry sweeping. Use water spraying or vacuum cleaning to prevent airborne dust generation.

7 HANDLING AND STORAGE

HANDLING

Avoid airborne dust generation.

Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation wear suitable respiratory protective equipment.

STORAGE

Ensure abatement of dust produced during the loading of silos and hoppers Store/handle bagged products so as to prevent accidental spillage.

SPECIFIC END USE(S)

When mixing with other substances afore-mentioned safe handling advice should apply.



8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMIT VALUES:

The workplace Maximum Exposure Limit (MEL) for respirable crystalline silica dust is 0.3mg/m³ in the United Kingdom, measured as an 8 hour Time Weighted Average (TWA).

However, the Health and Safety Executive considers that it is reasonably practicable for all industry sectors to control respirable crystalline silica to 0.1 mg/m³ (8 hour TWA)

EXPOSURE CONTROLS

OCCUPATIONAL EXPOSURE CONTROLS

Provide appropriate local exhaust ventilation in situations where dust is generated. Enclose plant and processes to isolate personnel from dusty areas.

RESPIRATORY PROTECTION

In case of exposure to airborne dust concentrations in exceeding regulatory limits, wear an appropriate compliant personal respirator



EYE PROTECTION

Wear safety glasses with side shields in circumstances where there is a risk of penetrative eye injury.



9 PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC AND PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid, granular, in various colours from white to brown
Odour	Odourless
Melting Point	1610 °C
Particle Shape	Sub-angular
Solubility in Water	Negligible
Density	2.65g/cm ³



10 STABILITY AND REACTIVITY

Reactivity:	Inert
Chemical stability:	Chemically Stable
Possibility of hazardous reactions:	Nil
Conditions to avoid:	Not Relevant
INCOMPATIBLE MATERIALS	
Materials to avoid:	Nil
Hazardous decomposition products:	Nil



11 TOXICOLOGICAL INFORMATION

June 2003 the EU Scientific Committee on Occupational Exposure Limits (SCOEL) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. Further that "there is sufficient information to conclude that the relative risk of lung cancer is increased with silicosis"

12 ECOLOGICAL INFORMATION

No specific adverse effects known. Product will not bioaccumulate

13 DISPOSAL CONSIDERATIONS

WASTE FROM RESIDUES / UNUSED PRODUCTS

Can be landfilled in compliance with local regulations. The substance has not been included in the EU Waste Catalogue.

PACKAGING

Recycling and disposal of packaging should be carried out in compliance with local regulations.



14 TRANSPORT INFORMATION

No special precautions are required under regulations relating to the transportation of dangerous goods.

UN Number	Not relevant
Transport hazard classes	Not classified
Environmental hazards	Not classified



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The substance is not classified under EU regulations relating to dangerous substances or preparations.

THIRD PARTY MATERIALS

Insofar as materials not supplied by Specialist Aggregates Ltd are used in conjunction with or instead of Specialist Aggregate Ltd materials, it is the responsibility of the customer to obtain all necessary information relating to them.

No liability can be accepted in respect of the use of Specialist Aggregates Ltd Silica Sand in conjunction with materials from another supplier.

LIABILITY

Such information is to the best of Specialist Aggregates Ltd knowledge and belief accurate and reliable as at 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 himself as to the suitability and completeness of such information for his own specific use.

LITERATURE REFERENCES

Literature references and further information is available from EUROSIL – the European Association of Industrial Silica Sand Producers

