

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

**Product name:** Reaction Tubes, Crucibles & Other Items made from Fused Silica (Quartz)

**Catalogue no:** Various

**SDS reference no:** Silica

**Brand:** OEA Labs

**EC index no(s):**

**REACH no:** The annual tonnage does not require registration.

**CAS no(s):** SiO<sub>2</sub> [60676-86-0]

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses:** Elemental analysis scientific instrumentation. Primary use in high temperature applications. Not recommended for use above 1100°C. Not for pharmaceutical, domestic or other uses.

### 1.3 Details of the supplier of the safety data sheet

**Company name:** OEA Laboratories Limited  
The Generator Quay House  
The Gallery, Kings Wharf  
The Quay, Exeter  
EX2 4AN

United Kingdom

**Telephone:** +44 (0)1579 384174

**Email:** sales@oealabs.com

### 1.4 Emergency telephone number

**Telephone:** +44 (0)1579 384174

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture according to Regulation (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

### 2.2 Labelling elements according to Regulation (EC) No 1272/2008

**Pictogram(s):**

**Signal word:**

**Hazard statement(s):**

- Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

**Precautionary statement(s):**

Restricted to professional users.

### 2.2 Other hazards

Processing this article may produce dusts or fumes which are considered hazardous.

## SECTION 3. Composition/information of ingredients

### 3.1 Substances

**Synonyms:** Amorphous Fused Silica, Fused Quartz, Fused Silicon Dioxide

**Formula:** SiO<sub>2</sub>

**Molecular weight:** 60.08 g/mol

**Components:**

Fused Silica Concentration: 100%

CAS No 60676-86-0,

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

**General advice:**

Dust or powder may be irritating to the eyes, skin and respiratory system. Broken glass presents a cut hazard.

**If Inhaled:**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:**

Cuts or abrasions should be treated promptly with thorough cleaning of the affected area.

**In case of eye contact:**

Eye injuries from glass particles should be treated by a physician immediately. Seek medical advice.

**If swallowed:**

Seek medical attention if the material is ingested.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

**SECTION 5. Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media:**

Material does not burn. Use methods for the surrounding fire.

**5.2 Special hazards arising from the substance or mixture**

Material will soften at about 1500°C, will proceed to a liquid and give off irritating and toxic gaseous oxides if heated to extreme temperatures.

**5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting as necessary for surrounding fire.

**5.4 Further information**

No data available.

**SECTION 6. Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, dust, mist or gas.

**6.2 Environmental precautions**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Sweep or gather up material and place in proper container for disposal or recovery.

**6.4 Reference to other sections**

For disposal see section 13.

**SECTION 7. Handling and storage**

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour, dust, mist or gas. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

No storage conditions specified.

**7.3 Specific end uses**

A part from the uses mentioned in section 1.2 no other specific uses are stipulated.

**SECTION 8. Exposure controls/personal protection**

**8.1 Control parameters**

**Components with workplace control parameters:**

Fused Silica

CAS No 60676-86-0, TWA, 0.1mg/m<sup>3</sup>, ;

**8.2 Exposure controls**

**Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment:**

**Eye/face protection:**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:**

Handle with protective cut resistant gloves. Gloves must be inspected prior to use.

**Body protection:**

None specified in normal use.

**Respiratory protection:**

Use approved NIOSH respiratory protection if TLV exceeded or over exposure is likely.

**Environmental protection:**

No data available.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form:	Multiform solid glass like material
Colour:	Colourless
Odour:	No data available.
Odour threshold:	No data available.
pH:	No data available.
Melting point:	>1585°C
Boiling point:	2230°C
Flash point:	No data available.
Flammability solid/gas:	No data available.
Upper/lower flammability or explosive limits:	No data available.
Water solubility:	Insoluble
Autoignition temp:	No data available.
Decomp temperature:	No data available.
Explosive properties:	No data available.
Oxidising properties:	No data available.

### 9.2 Other safety information

No data available.

## SECTION 10. Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Grinding, sawing, abrading or otherwise dispersing in air.

### 10.5 Incompatible materials

Hydrofluoric Acid, strong alkali

### 10.6 Hazardous decomposition products

In the event of fire: see section 5.

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity:**

No data available.

**Skin corrosion/irritation:**

No data available.

**Serious eye damage/eye irritation:**

No data available.

**Respiratory or skin sensitisation:**

No data available.

**Germ cell mutagenicity:**

No data available.

**Carcinogenicity:**

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Silicon dioxide)

**Reproductive toxicity:**

No data available.

**Specific target organ toxicity - single exposure:**

No data available.

**Specific target organ toxicity - repeated exposure:**

No data available.

**Aspiration hazard:**

No data available.

**Potential health effects - inhalation:**

No data available.

**Potential health effects - ingestion:**

No data available.

**Potential health effects - skin:**

No data available.

**Potential health effects - eyes:**

No data available.

**Signs and symptoms of exposure:**

No data available.

**Additional information:**

RTECS: Not available. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12. Ecological information

### 12.1 Toxicity

**Toxicity to fish:** No data available.

**Toxicity to daphnia and other aquatic invertebrates:** No data available.

**Toxicity to algae:** No data available.

**Toxicity to bacteria:** No data available.

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### 12.6 Other adverse effects

No data available.

## SECTION 13. Disposal considerations

### 13.1 Waste treatment methods

**Product:**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging:**

Dispose of as unused product.

## SECTION 14. Transport information

### 14.1 UN number

ADR/RID/IATA/IMDG: Not dangerous goods

### 14.2 UN proper shipping name

ADR/RID/IATA/IMDG: Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID/IATA/IMDG: Not dangerous goods

### 14.4 Packaging group

ADR/RID/IATA/IMDG: Not dangerous goods

### 14.5 Environmental hazards

ADR/RID/IATA/IMDG: Not dangerous goods

### 14.6 Special precautions for user

Not dangerous goods

### 14.7 Shipping quantities

ADR LQ maximum: Not dangerous goods

ADR EQ code: Not dangerous goods

ADR EQ IP/pkg: Not dangerous goods

IATA LQ PInstruction: Not dangerous goods

IATA LQ IP/pkg: Not dangerous goods

IATA EQ code: Not dangerous goods

IATA EQ IP/pkg: Not dangerous goods

De minimus: Not dangerous goods

## SECTION 15. Regulatory information

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

## SECTION 16 Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. OEA Laboratories Limited shall not be held liable for any damage resulting from the handling or contact with the above product. See [www.oealabs.com](http://www.oealabs.com) for terms and conditions of sale.