

## MATERIAL SAFETY DATA SHEET

### SECTION I GENERAL INFORMATION

Information provided by: SCHOTT Lithotec AG  
 Address: Otto-Schott-Straße 13, D-07745 Jena  
 Telephone Number: +49 (0) 3641 / 232-201  
 Product Name(s): Lithosil®  
 Chemical Name: fused silica  
 Date effective: March 13, 2005

### SECTION II COMPOSITION / INGREDIENTS DATA

Formula: SiO<sub>2</sub>  
 Composition: >99,99 % vitreous SiO<sub>2</sub>

### SECTION III HAZARDS IDENTIFICATION

No hazardous product as specified in Directive 67/548/EEC.

### SECTION IV FIRST AID MEASURES

**SiO<sub>2</sub> in a compact form is absolutely not dangerous, only in case of dry dust use the following measures:**

After inhalation: fresh air.  
 After skin contact: wash off with plenty of water. Remove contaminated clothing.  
 After eye contact: rinse with plenty of water with the eyelid held wide open; arrange for medical treatment  
 After swallowing (large amounts): consult doctor if feeling unwell.

### SECTION V FIRE-Safety Regulations/ Rules

Rules of action: Product is not flammable; in case of fire apply fire-fighting measures to affected area.  
 Special risks: Not ascertained!  
 Special protective equipment for fire fighting: In accordance to valid fire protection measures of affected area.  
 Other information: none

## SECTION VI ACCIDENTIAL RELEASE MEASURES

Person-related precautionary measures: Avoid generation of dust; do not inhale dust. In case of dust use dust mask.

Procedures for cleaning / absorption: Spilled product to be removed without using liquid. Forward to disposal. Clean up affected area.

## SECTION VII HANDLING AND STORAGE

Handling: Avoid formation of dust. In case of dust ensure good ventilation at the workplace.

Storage: Dry. No further requirements.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Engineering controls: Use local exhaust ventilation or good ventilation at the workplace in case of dust formation.

Personal protective equipment: **Not required by normally product handling!**

Respiratory protection: required when dust is generated.

Eye protection: safety glasses

Hand protection: impervious gloves

Body protection: protective work clothing

Industrial hygiene: Change contaminated clothing. Wash hands after working with substance.

Air limit value at the workplace: [TRGS 900]  
**SiO<sub>2</sub>-dust:** 0,15 mg/m<sup>3</sup> (alveolar fraction)

## SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

Form: solid

Colour: white

Odour: odourless

pH value at 100 g/l H<sub>2</sub>O (20°C): -

Melting point: not applicable

Boiling point: not applicable

Strain point: 980°C

Annealing point: 1080°C

Softening point: 1600°C

Ignition temperature: not available

flash point: not applicable

Explosion limits: not available

Density (20°C): 2,20 g/cm<sup>3</sup>

Solubility in water (18°C): not applicable

## SECTION X STABILITY AND REACTIVITY

Conditions to be avoided: None.  
Substances to be avoided: Acids: HF; H<sub>3</sub>PO<sub>4</sub>  
Hazardous decomposition products: in the event of fire: see section V.

## SECTION XI TOXICOLOGICAL INFORMATION

Acute toxicity: For the human no data available.

Specific symptoms in animal studies:

Eye irritation test (rabbit): application from particulate matter (fine dust) in connective tissue cornea showed small excitability.

Skin irritation test (rabbit): No irritation.

Further toxicological information (**only for dust**):

Chronic toxicity: in case of continuing high exposition of dust <5µm (particulate matter), may cause a black lung disease after primary damage of alveolar macrophage.

**The product self is non-toxic.**

## SECTION XII WASTE DISPOSAL

Follow Federal, State and Local Regulations. Disposal in domestic waste.

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