



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Fised Silica

CHEMICAL NAME: Fised Silica

CHEMICAL FORMULA: SiO₂

COMPOSITION: >99,99 % vitreous SiO₂

PRODUCT CLASSIFIED AS: Non-hazardous

WARNING STATEMENT: None considered necessary

SECTION 1 – PHYSICAL/CHEMICAL CHARACTERISTICS

FORM: solid

COLOUR: white

ODOUR: odourless

pH value at 100 g/l H₂O (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/cm³

SOLUBILITY IN WATER (18°C): not applicable

SECTION 2 – FIRE AND EXPLOSION HAZARD DATA

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 3 – REACTIVITY DATA

CONDITIONS TO BE AVOIDED: None.

SUBSTANCES TO BE AVOIDED: Acids: HF; H₃PO₄

HAZARDOUS DECOMPOSITION PRODUCTS: in the event of fire

SECTION 4 – HEALTH HAZARD DATA

No hazardous product.

SECTION 5 – FIRST AID PROCEDURES

SiO₂ 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 6 – SPECIAL HANDLING INFORMATION

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

STORAGE: Dry. No further requirements.

SECTION 7 – 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