

## SAFETY INFORMATION SHEET Opaque Materials

This document is not a safety data sheet, but it is based on the GHS regulations.

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

#### Product identifier

Product name : Opaque Materials  
Chemical name : Silicon dioxide  
CAS-No. : 7631-86-9

#### Recommended use of the chemical and restrictions on use

Recommended use : Industrial use

#### Supplier's details

Company : Heraeus Quarzglas GmbH & Co. KG  
Heraeus Covantics  
Reinhard-Heraeus-Ring 29  
63801 Kleinostheim  
Telephone : +496181350  
E-mail address : [sds@heraeus.com](mailto:sds@heraeus.com)  
(Heraeus Business Solutions GmbH: EHS Chemical Safety)

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### SECTION 2: Hazards identification

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

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### SECTION 3: Composition/information on ingredients

Substance / Mixture : Substance  
Chemical nature : inorganic

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Silicon dioxide	7631-86-9	≤ 100

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### SECTION 4: First aid measures

#### Description of necessary first-aid measures

General advice : First aider needs to protect himself.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

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- If inhaled : Move to fresh air.
- In case of skin contact : Wash off with soap and plenty of water.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
Protect unharmed eye.  
Call a physician immediately.
- If swallowed : Immediately give large quantities of water to drink.  
Do NOT induce vomiting.

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

None known.

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

Treatment : Treat symptomatically.

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## **SECTION 5: Firefighting measures**

### **Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Specific hazards during fire-fighting : Exposure to decomposition products may be a hazard to health.

Hazardous combustion products : No hazardous combustion products are known

### **Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Further information : Use a water spray to cool fully closed containers.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.

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### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions : Follow safe handling advice and personal protective equipment recommendations.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.  
Refer to protective measures listed in sections 7 and 8.

#### Environmental precautions

#### Methods and materials for containment and cleaning up

Methods for cleaning up : Pick up and arrange disposal without creating dust.  
Sweep up or vacuum up spillage and collect in suitable container for disposal.

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### SECTION 7: Handling and storage

#### Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.  
Wear personal protective equipment.  
Avoid inhalation, ingestion and contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.

Hygiene measures : Keep away from food and drink. Wash hands before breaks and at the end of workday. Keep working clothes separately.  
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

#### Conditions for safe storage, including any incompatibilities

#### Specific end use(s)

Specific use(s) : No data available

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### SECTION 8: Exposure controls/personal protection

#### Personal protective equipment

Eye/face protection : Safety glasses with side-shields

Hand protection

Remarks : Before removing gloves clean them with soap and water.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Please ob-

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	serve the instructions regarding permeability and break-through time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Filter type	: Recommended Filter type: Filter type ABEK-P

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state	: solid
Colour	: colourless, opaque
Odour	: none
Odour Threshold	: No data available
Melting point/ range	: 1.710 °C (1.013 hPa)
Boiling point/boiling range	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: substance/mixture is non-soluble (in water)
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable

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Solubility(ies)  
Water solubility : (20 °C, 1.013 hPa)  
insoluble

Solubility in other solvents : No data available

Vapour pressure : No data available

Relative density : No data available

Density : 2,2 g/cm<sup>3</sup> (20 °C, 1.013 hPa)

Relative vapour density : Not applicable

#### Other information

Explosives : Not explosive

Oxidizing properties : No data available

Self-ignition : No data available

Substances and mixtures, which in contact with water, emit flammable gases : The substance or mixture does not emit flammable gases in contact with water.

Metal corrosion rate : No data available

Evaporation rate : Not applicable

Molecular weight : 60,08 g/mol

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## SECTION 10: Stability and reactivity

#### Reactivity

No dangerous reaction known under conditions of normal use.

#### Chemical stability

Stable under normal conditions.

#### Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

#### Conditions to avoid

Conditions to avoid : No data available

Avoid dust formation.

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### **Incompatible materials**

Materials to avoid : No data available  
No data available

### **Hazardous decomposition products**

No data available  
No hazardous decomposition products are known.  
No hazardous decomposition products are known.

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## **SECTION 11: Toxicological information**

### **Acute toxicity**

Not classified due to lack of data.

### **Skin corrosion/irritation**

Not classified due to lack of data.

### **Serious eye damage/eye irritation**

Not classified due to lack of data.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified due to lack of data.

#### **Respiratory sensitisation**

Not classified due to lack of data.

### **Germ cell mutagenicity**

Not classified due to lack of data.

### **Carcinogenicity**

Not classified due to lack of data.

### **Reproductive toxicity**

Not classified due to lack of data.

### **STOT - single exposure**

Not classified due to lack of data.

### **STOT - repeated exposure**

Not classified due to lack of data.

### **Aspiration toxicity**

Not classified due to lack of data.

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### SECTION 12: Ecological information

**Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

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### SECTION 13: Disposal considerations

**Waste treatment methods**

Product : If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Dispose of as unused product.

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### SECTION 14: Transport information

**ADR**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**UNRTDG**

Not regulated as a dangerous good

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### Other information

**Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-

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ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative