

SAFETY INFORMATION SHEET

Clear Quartz

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

| | | |
|---------|----------------|---------------------------------|
| Version | Revision Date: | Date of last issue: - |
| 1.0 | 12.02.2025 | Date of first issue: 12.02.2025 |

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

Product identifier

| | | |
|---------------|---|-----------------|
| Product name | : | Clear Quartz |
| 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 (Heraeus Business Solutions GmbH: EHS Chemical Safety) |

SECTION 2: Hazards identification

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

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 |

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.

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.
Avoid dust formation.

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.

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

SECTION 8: Exposure controls/personal protection

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Eye/face protection : Safety glasses with side-shields

Hand protection

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| | | |
|--------------------------|---|---|
| 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 observe the instructions regarding permeability and breakthrough 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 | : | P3 filter |

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| | | |
|--|---|---|
| Physical state | : | solid |
| Colour | : | colourless |
| 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 |

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Viscosity, kinematic : Not applicable

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/cm³ (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

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

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Avoid dust formation.

Incompatible materials

Materials to avoid : No data available

Hazardous decomposition products

No data available

No hazardous decomposition products are known.

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

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.

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

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