

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



QSiI 550F B

Version	Revision Date:	Print Date:	Date of last issue: -
1.0	05/21/2026	05/21/2026	Date of first issue: 05/21/2026

SECTION 1. IDENTIFICATION

Product name : QSiI 550F B

Recommended use of the chemical and restrictions on use

Recommended use : Industrial use
Electrical industry and electronics

Manufacturer or supplier's details

Manufacturer/Supplier

CHT Germany GmbH
Bismarckstraße 102
72072 Tübingen
Germany
Tel.: +49 7071 154 0
info@cht.com

CHT USA Inc.
805 Wolfe Avenue
Cassopolis, MI 49031
USA
Tel.: +1 269 445 0847
info.usa@cht.com

Importer : -
-
-
-
-



chemical-concepts.com

800.220.1966

410 Pike Road • Huntingdon Valley, PA 19006

Responsible Department : CHT Germany GmbH
CHT USA
Product Safety
sds.usa@cht.com
sds.germany@cht.com

Emergency telephone number

Emergency telephone number : +1 703 527 3887 CHEMTREC (International, 24 hours)
1-800-424-9300 CHEMTREC (USA, 24 hours)

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

Other hazards

None known.

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GHS label elements

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
Quartz (SiO ₂)	14808-60-7*	>= 45 - <= 70	-
Carbon black	1333-86-4*	>= 0.1 - <= 1	-

* Indicates that the identifier is a CAS No.

SECTION 4. FIRST AID MEASURES

General advice	: Take off all contaminated clothing immediately. Show this safety data sheet to the doctor in attendance.
If inhaled	: Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	: Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	: Immediately flush eye(s) with plenty of water. If symptoms persist, call a physician.
If swallowed	: Rinse mouth with water. Do NOT induce vomiting. Call a physician immediately.
Most important symptoms and effects, both acute and delayed	: None known.
Notes to physician	: Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO₂)
Water spray
Dry powder
Alcohol-resistant foam

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- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.
Can be released in case of fire:
Carbon oxides
Silica
- Further information : In case of fire do not inhale smoke, conflagration gases and steams.
Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Contaminated surfaces will be extremely slippery.
- Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
If the product contaminates rivers and lakes or drains inform respective authorities.
Pay attention to local or official regulations.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated surface thoroughly.
Treat recovered material as described in the section "Disposal considerations".
Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
Keep away from heat and sources of ignition.
- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.

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- Conditions for safe storage : Do always store in containers which correspond to the original ones.
Keep container tightly closed.
Keep in a dry, cool place.
- Further information on storage conditions : Protect from frost.
Protect from humidity and keep away from water.
- Materials to avoid : Incompatible with acids and bases.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Quartz (SiO ₂)	14808-60-7	TWA (Respirable dust)	0.05 mg/m ³	OSHA Z-1
		TWA (respirable)	10 mg/m ³ / %SiO ₂ +2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO ₂ +5	OSHA Z-3
		TWA (respirable dust fraction)	0.1 mg/m ³	OSHA P0
		TWA (Respirable particulate matter)	0.025 mg/m ³ (Silica)	ACGIH
		PEL (respirable)	0.05 mg/m ³	OSHA CARC
		TWA (Respirable dust)	0.05 mg/m ³ (Silica)	NIOSH REL
Carbon black	1333-86-4	TWA (Inhalable particulate matter)	3 mg/m ³	ACGIH
		TWA	3.5 mg/m ³	NIOSH REL
		TWA	3.5 mg/m ³	OSHA Z-1
		TWA	3.5 mg/m ³	OSHA P0

- Engineering measures** : Solids with occupational exposure limits in liquid preparations do not cause an exposure in the workplace, because they are not present in a respirable form. Exposure can occur in the form of aerosols or after drying of the liquid the solids remain, possibly in a finely dispersed form.
Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

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Respiratory protection : In case the workplace is not ventilated sufficiently and during spray processing or activities where inhalation exposure may occur, it is necessary to wear a NIOSH certified respirator with a minimum APF of 10 in accordance with 29 CFR 1910.134.

Hand protection
Material : Butyl rubber
Break through time : > 480 min
Glove thickness : >= 0.5 mm
Protective index : Class 6

Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Wear chemical resistant impervious gloves. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Goggles
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

Skin and body protection : Wear suitable protective clothing.
Work uniform or laboratory coat.

Hygiene measures : Avoid contact with skin, eyes and clothing.
Do not breathe vapours, aerosols.
Take off all contaminated clothing immediately.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Colour : black

Odour : not significant

pH : Not applicable

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Melting point/ range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	> 284 °F / 140 °C
Evaporation rate	:	Not applicable
Flammability (liquids)	:	Sustains combustion
Self-ignition	:	not auto-flammable
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	No data available
Relative vapour density	:	Not applicable
Density	:	1.41 g/cm ³ (73 °F / 23 °C)
Solubility(ies)	:	
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	not determined
Decomposition temperature	:	The substance or mixture is not classified self-reactive.
Viscosity	:	
Viscosity, kinematic	:	not determined
Oxidizing properties	:	Not applicable
Conductivity	:	Not determined
Particle characteristics	:	
Particle Size Distribution	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No hazardous reactions known if stored and handled properly.
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Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	Protect from moisture.
Incompatible materials	:	Acids Bases
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Remarks: Argument by analogy
Acute inhalation toxicity	:	Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity	:	Remarks: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product:

Remarks	:	Prolonged skin contact may cause skin irritation.
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Serious eye damage/eye irritation

Product:

Remarks	:	Contact with eyes may cause irritation.
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Respiratory or skin sensitisation

Product:

Remarks	:	No known sensitising effect.
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Germ cell mutagenicity

Product:

Germ cell mutagenicity - Assessment	:	Based on available data, the classification criteria are not met. Remarks: The product is liquid, there are no dust particles in respirable form.
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Carcinogenicity

Product:

Carcinogenicity - Assessment : If the product is used properly, no carcinogenic components of the product can be released, i.e. any danger to persons through exposure in the case of handling in accordance with the intended use is assumed to be unlikely.
Remarks: The product is liquid, there are no dust particles in respirable form.

Components:

Quartz (SiO₂):

Carcinogenicity - Assessment : There is numerous evidence that an increased risk of lung cancer is limited to people who already have silicosis.

Known to have carcinogenic potential for humans

Carbon black:

Carcinogenicity - Assessment : Suspected of causing cancer.

IARC	Group 1: Carcinogenic to humans Quartz (SiO ₂) (Silica dust, crystalline)	14808-60-7
	Group 2B: Possibly carcinogenic to humans Carbon black	1333-86-4
OSHA	OSHA specifically regulated carcinogen Quartz (SiO ₂) (crystalline silica)	14808-60-7
NTP	Known to be human carcinogen Quartz (SiO ₂) (Silica, Crystalline (Respirable Size))	14808-60-7

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.
Remarks: The product is liquid, there are no dust particles in respirable form.

STOT - single exposure

Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.
Remarks : The product is liquid, there are no dust particles in respirable

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form.

STOT - repeated exposure

Product:

Exposure routes	: Inhalation
Target Organs	: Lungs
Assessment	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Remarks	: The product is liquid, there are no dust particles in respirable form.

Components:

Quartz (SiO₂):

Exposure routes	: Inhalation
Target Organs	: Lungs
Assessment	: Causes damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Product:

Based on available data, the classification criteria are not met.

Experience with human exposure

Components:

Quartz (SiO₂):

Inhalation	: Remarks: Product can cause silicosis when high concentrations of dust are inhaled over a long time. Silicosis symptoms can be long-lasting cough attacks and shortness of breath. Work done in surroundings containing silica dust has to stay under observation. There is numerous evidence that an increased risk of lung cancer is limited to people who already have silicosis.
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Further information

Product:

Remarks	: If used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	:	Remarks: No data is available on the product itself.
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data is available on the product itself.
Toxicity to algae/aquatic plants	:	Remarks: No data is available on the product itself.
Toxicity to microorganisms	:	Remarks: No data is available on the product itself.

Persistence and degradability

Product:

Biodegradability	:	Remarks: No data is available on the product itself.
Physico-chemical removability	:	Remarks: The product is insoluble and sinks in water. May be separated mechanically in waste water plants.

Bioaccumulative potential

Product:

Bioaccumulation	:	Remarks: No data is available on the product itself.
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Mobility in soil

Product:

Mobility	:	Remarks: No data available
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Other adverse effects

Product:

Results of PBT and vPvB assessment	:	According to our present knowledge the product does not contain persistent, bioaccumulative and toxic substances (PBT substances) or very persistent and very bioaccumulative (vPvB substances) as defined in Annex XIII of the Regulation (EG) No 1907/2006 (REACH), respectively.
Additional ecological information	:	According to our knowledge, the product does not contain heavy metals and other compounds of EC directive 2000/60 EC. The product is insoluble in water, therefore the ecological data such as, e.g. biodegradability, COD, BOD5 values cannot be determined analytically.

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- Waste from residues : Avoid release to the environment.
The product should not be allowed to enter drains, water courses or the soil.
Do not dispose of waste into sewer.
Dispose of rinse water as waste water.
Dispose of rinse water in accordance with local and national regulations.
Product that cannot be reused, reclaimed or recycled should be disposed of at an authorised facility in accordance with national, state and local regulations.
- Contaminated packaging : Packaging must be completely emptied. Dispose of non-recyclable/recyclable packaging in accordance with local regulations.
Do not rinse packaging before disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Segregation group : -

Transport in bulk according to IMO instruments

Not applicable

National Regulations

49 CFR

Not regulated as a dangerous good

Special precautions for user

Remarks : see chapter 6 - 8

SECTION 15. REGULATORY INFORMATION

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

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SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

Quartz (SiO₂) 14808-60-7

Pennsylvania Right To Know

Quartz (SiO₂) 14808-60-7
aluminium oxide 1344-28-1

California Prop. 65

WARNING: This product can expose you to chemicals including Quartz (SiO₂), Carbon black, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Permissible Exposure Limits for Chemical Contaminants

Quartz (SiO₂) 14808-60-7

California Regulated Carcinogens

Quartz (SiO₂) 14808-60-7

The components of this product are reported in the following inventories:

TSCA : All components of this product are in compliance with the inventory or exempted from listing requirements of the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA CARC	: OSHA Specifically Regulated Chemicals/Carcinogens
OSHA P0	: USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3	: USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	: 8-hour, time-weighted average
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA CARC / PEL	: Permissible exposure limit (PEL)
OSHA P0 / TWA	: 8-hour time weighted average
OSHA Z-1 / TWA	: 8-hour time weighted average
OSHA Z-3 / TWA	: 8-hour time weighted average

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ALLC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

The classification for dangerous physico-chemical properties, health and environmental hazards has been derived from a combination of computational methods and, if available, test data.

Sources of key data used to compile the Safety Data Sheet : Information from our suppliers, as well as data from the "Registered substances database" of the European Chemicals Agency (ECHA) has been used to compile this safety data sheet.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.