

according to Regulation (EC) No 1907/2006, Regulation (EU) No 2015/830, Regulation (EC) No 1272/2008

## Quartz Glass Fiber products

Revision Date 01.09.2030

Version 1.0

EU / EN

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

#### 1.1 Product identifier

Product name : Quartz glass chopped fibers, quartz glass fiber yarn, quartz fiber fabrics, ropes, tapes, sleeves and other textiles.

Chemical name : Continuous Quartz Glass Fiber, Filament Amorphous Quartz /Continuous filament silicon dioxide (SiO<sub>2</sub>)/fibrous silica

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/ Mixture : High-temperature heat insulation, or/and acoustic insulation, sealing, filler for high-temperature resistant fiber reinforced plastics, etc.

#### 1.3 Details of the supplier of the safety data sheet

Company : OAO «NPO Stekloplastic»  
Russia, Solnechnogorsk region, Andreevka,3-A

Telephone : +7 495 5360694

E-mail address : info@npostek.ru

#### 1.4 Emergency telephone number

+7 495 5360694 (Monday to Friday 09:30 to 17:30 GMT).

In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department. The attending health professional will be able to contact the National Poisons Information Service.

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification according to REGULATION (EC) No 1272/2008

The product does not need to be classified in accordance with REGULATION (EC) No 1272/2008. Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.2 Label elements

##### Labeling according to REGULATION (EC) No 1272/2008

The product does not need to be labelled in accordance with REGULATION (EC) No 1272/2008. Not a hazardous substance or mixture according to REGULATION (EC) No 1272/2008.

All precautionary statements see Section 16.

#### 2.3 Other hazards

Temporary mechanical abrasion (itching) of skin, eyes and respiratory tract may occur upon exposure

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to particles during handling of this product and cannot occur unless there is direct contact. Abrasion effects should subside after cessation of exposure.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Continuous Quartz Glass Fiber products are considered as articles under REACH (1907/2006/ER). Continuous Quartz Glass Fiber products are made of glass, which is given a specific shape (filament) and dimension (filament diameter). A surface treatment (sizing) is applied to the filaments, which are gathered to form a strand. The strand is further processed into a specific product design, according to the downstream use of the article. The sizing is a mixture of chemicals, i.e., coupling agent, film former, polymeric resin/emulsion. The sizing content is usually below 1.0%. The following table contains the main constituent at the top.

Chemical Name	Concentration, wt. %	CAS-No	CLP
Filament Amorphous Quartz	99.0-99.9	60676-86-0	Not classified
Size	0,1 – 1.0	non	Not classified

For the full text of the H-phrases mentioned in this Section, see Section 16.

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- Inhalation : If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- Skin contact : In case of contact, flush skin with soap and plenty of water. If skin irritation persists, call a physician.
- Eye contact : Protect unharmed eye. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : Rinse mouth with water. If necessary, seek medical advice.

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

No data available.

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

No data available.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

Suitable extinguishing media : Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

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Specific hazards : Hazardous decomposition products may be formed under fire conditions (see section 10).

**5.3 Advice fire fighters**

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

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire do not breathe fumes. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedure**

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Avoid dust formation. Avoid breathing dust.

**6.2 Environmental precautions**

Prevent run-off from entering ground, storm sewers and ditches which lead to natural waterways.

**6.3 Methods and materials for containment and cleaning up**

Use any feasible mechanical means (e.g. vacuum, sweeping). Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly. Pick up and arrange disposal without creating dust.

**6.4 Reference to other sections**

See Section 7, 8, 11, 12 and 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

Advice on safe handling : For personal protection see section 8. Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin and eyes. Avoid breathing dust. Handle with care. Obtain special instructions before use.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

**7.2 Conditions for safe storage including any incompatibilities**

Requirements for storage : Keep indoors or in an area accessible only to qualified or authorized persons. Keep container tightly closed in a well-ventilated place. Protect from moisture. Storage in propylene bags or specialized soft containers.

Advice on common storage : Keep away from food, drink, animal feeding stuffs.

Storage period : N/A

Storage temperature : N/A

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**7.3 Specific end use(s)**

No data available.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**
**8.1 Control parameters**

Quartz Glass Fiber are not respirable; however, some mechanical processes might generate airborne dust or fiber (see section 11). The occupational exposure limits mentioned below are applicable to airborne fiber exposure and/or to dust exposure.

Components	CAS-No	OSHA PEL (8-hr TWA)	ACGIH TLV	NIOSH REL
Filament Amorphous Quartz	60676-86-0	15 mg/m <sup>3</sup> (total dust)	10 mg/m <sup>3</sup> (inhalable fraction)	3 fibers/cc
Size	Non	None Established	None Established	None Established

**8.2 Exposure controls**
**Engineering measures**

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

**Personal protective equipment**

Respiratory protection : Half mask with a particle filter.

Remarks : Use respirators and components tested and approved under appropriate government standards CEN (EU).

Hand protection : Wear suitable gloves.

Material : No data available.

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Tightly fitting safety goggles.

Remarks : Use equipment for eye protection tested and approved under appropriate government standards such as EN 166 (EU).

Skin and body protection : Overalls.

Remarks : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
 General industrial hygiene practice.  
 Avoid formation of dust.  
 When using do not eat, drink or smoke.  
 Wash hands before breaks and at the end of workday.  
 Wash contaminated clothing before re-use.

**Environmental exposure controls**

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No data available.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Form	: Amorphous quartz glass fibers.
Colour	: White.
Odour	: Absent.
Physical State	: Solid.
Flash point	: Not applicable.
Lower explosion limit	: No data available.
Upper explosion limit	: No data available.
Explosive properties	: Non-explosive.
Flammability	: Non-flammable.
Self-ignition temperature	: No data available.
Melting point/range	: Above 1650 °C
Boiling point/boiling range	: Not applicable.
Vapor pressure	: Not applicable.
Density	: 2.2 g/cm <sup>3</sup>
pH	: Not applicable
Water solubility	: Non soluble.
Solubility in other solvents	: No data available.

#### 9.2 Other information

No data available.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

No data available.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

No data available.

#### 10.4 Conditions to avoid

Protect from moisture.

#### 10.5 Incompatible materials

Materials to avoid : Alkali, Phosphoric acid, Hydrofluoric acid.

#### 10.6 Hazardous decomposition products

Hazardous decomposition products : Not applicable under normal conditions. Sizings or binders may decompose in a fire. Primary decomposition products include carbon monoxide, carbon dioxide, other hydrocarbons and water.

### SECTION 11: TOXICOLOGICAL INFORMATION

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**Acute toxicity:** not relevant

**Local effects:**

Dusts and fibers may cause mechanical irritation to eyes and skin. The irritation disappears when the exposure ceases. Mechanical irritation is not considered as a health hazard in the meaning of European Regulation (CE) 1272/2008. Continuous Quartz Glass Fiber do not require a classification as an irritant under the European Regulation (CE) 1272/2008. Inhalation may cause coughing or sneezing and nose or throat irritation. High exposure may cause difficult breathing, congestion and chest tightness.

**Long-term effects:**

Continuous Quartz Glass Fiber are not respirable according to the World Health Organization (WHO) definition. Respirable fibers have a diameter (d) smaller than 3µm, a length (l) larger than 5µm and a l/d ratio larger than or equal to 3. Fibers with a diameter greater than 3µm, which is the case for our continuous filament glass fibers, do not reach the lower respiratory tract and therefore do not cause serious pulmonary disease.

**Information on non-carcinogenicity:** Continuous Quartz Glass Fiber are not classified as carcinogenic according to European Regulation (CE) 1272/2008, since they are not "fibers with random orientation". In June 1987 and further confirmed in October 2001, the International Agency for Research on Cancer (IARC) categorized continuous filament glass fibers as "unclassifiable as to carcinogenicity in humans" (Group 3). The TLV/TWA exposure limit of 5mg/m<sup>3</sup> for the inhaled dust was applied to the continuous filament glass fibers in order to prevent mechanical irritation of the upper respiratory system.

Components	ACGIH	IARC	NTP	OSHA
Glass Fiber Continuous Filament	A4 – Not classified as a human carcinogen	3 - Not classified as a human carcinogen	No	No
Size	No	No	No	No

Components	LD50 Oral (g/kg)	LD50 Dermal (g/kg)	LC50 Inhalation (ppm, 8 hrs.)
Glass Fiber Continuous Filament	N/A	N/A	N/A
Size	N/A	N/A	N/A

The international Agency for research on Cancer (IARC), categorized fiber glass as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify fiber glass continuous filament as a possible, probable, or confirmed cancer-causing material.

### SECTION 12: ECOLOGICAL INFORMATION

No specific data are available for this product. This material is not expected to cause harm to the environment

### SECTION 13: DISPOSAL CONSIDERATIONS

General product information: This product is not expected to be a characteristic waste under RCRA

Component Waste Numbers: No EPA Numbers are applicable for this product's components.

European Waste Code number is 101103

Dispose of waste material according to Local, State, Federal, and Provincial

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**SECTION 14: TRANSPORT INFORMATION****ADR**

Non dangerous goods.

**RID**

Non dangerous goods.

**IATA**

Non dangerous goods.

**IMDG**

Non dangerous goods.

**Special precautions for the user**

See Section 6, 7 and 8.

**SECTION 15: REGULATORY INFORMATION****National chemicals inventories:**

Continuous filament glass fibre products are articles under the chemicals inventories listed below and consequently are exempt from listing on these inventories:

- The European Inventory of Existing Chemical Substances: EINECS/ELINCS,
- The US EPA Toxic Substance Control Act: TSCA,
- The Canadian Chemical Registration Regulations: NDSL/DSL,
- The Japanese Chemical Substances Control Law under METI: CSCL,
- The Australian Inventory of Chemical Substances: AICS,
- The Philippine Inventory of Chemicals and Chemical Substances: PICCS,
- The Korean Existing Chemicals List: (K)ECL,
- The Chinese List on New Chemical Substances.

**SECTION 16: OTHER INFORMATION**

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. The manufacturer does not give any trading warranty. The manufacturer will not bear the responsibility for a non-appropriate use of the product or a misinterpretation of the information mentioned in this document