



SAFE USE INSTRUCTION SHEET

The product is defined as an article in the Regulation (EC) No. 1907/2006 (REACH) Art. 3 Par. 3, not classified as dangerous and not containing any substance classified as dangerous. Therefore, there is no obligation to issue a safety data sheet according to the Regulation (EC) No. 1907/2006 Art. 31 (Requirements for safety data sheets). The following information complies with the obligation according to Art. 32 (for substances on their own or in preparations for which a safety data sheet is not required) by providing the necessary guidance and recommendations for a safe use of the product, and is issued following the structure by Annex II.

Saint-Gobain Quartz is nevertheless willing to provide to its customer a voluntary declaration of safety data in order to inform them about safe use instructions while using its products.

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

1.1. Product identifier

Product name: QUARTZEL® VEIL EPOXY BINDER

Product code: 1509A7DX X=1 to 9

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

Reinforcement for composites / Thermal insulation layer

1.3. Details of the supplier of the safety data sheet

Registered company name: SAINT-GOBAIN QUARTZ SAS.

Address: 10 rue des Etangs. 77140.Saint-Pierre-Lès-Nemours.France. Téléphone :
+33 (0)1 64 45 45 00. Fax : +33 (0)1 64 28 29 78.

Email : dl-sgquartz-fds@saint-gobain.com

<http://quartz.saint-gobain.com>

1.4. Emergency telephone number: +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

This article does not present a physical, health and environmental hazard.

No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

No labelling requirements

2.3. Other hazards

The article does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European

[Chemicals Agency \(ECHA\) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table](http://echa.europa.eu/fr/candidate-list-table)

The article satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annex XIII of the REACH regulations EC 1907/2006.

Cutting the materials or mechanical processing may release small amounts of airborne fibers or particulates of fused amorphous silica which are mechanical irritants to the skin and eyes and may be irritant to the upper respiratory system if inhaled. As with any dust pre-existing upper respiratory and lung diseases such as bronchitis,

emphysema or asthma may be aggravated.

Cutting the materials or mechanical processing may also release small amounts of cured epoxy resin dust which may cause allergic responses in individuals who have previously been sensitized to uncured epoxy resins or hardeners.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Substance	CAS / EC N°	% By Weight	Classification and labelling Regul.EC 1272/2008	Classification and labelling Directive 67/548/EEC
Chopped-strand Quartz fiber	60676-86-0	80-95	Article Not classified	Not classified
Cured Epoxy resin	NA -polymer	5-20	Not classified	Not classified

Information on ingredients:

Quartz fiber: high purity amorphous silica glass.

Quartz fiber are articles.

Quartz fibers have mean geometric diameter of greater than 6µm.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation:

Remove to fresh air, drink water and clear the throat and blow nose to evacuate fiber/dust.

In the event of splashes or contact with eyes:

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin:

Watch out for any remaining product between skin and clothing, watches, shoes, etc. Wash the skin thoroughly with soap and water or a recognized cleaner.

In the event of swallowing:

Seek medical attention

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: FIREFIGHTING MEASURES

5.1. Extinguishing media

Use extinguishing media as appropriate for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Do not breathe in smoke.

5.3. Advice for firefighters

No data available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Do not allow dust or fibers to be windblown.

Unwanted products should be collected and stored in sealed bags.

Do not use compressed air to remove dust or fibers from clothing or equipment.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Dust or fiber deposits should be removed using a vacuum cleaner with HEPA exhaust air filtration.

The collected deposits and used vacuum cleaner bags should be sealed into poly-bags before disposal.

If sweeping is required, the area should be thoroughly damped down with water before sweeping starts to prevent dust and fibers becoming airborne during sweeping.

6.4. Reference to other sections

No data available.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Always wash hands after handling.

Keep dust generation to a minimum. Use hand tools whenever possible.

Limit the use of power tools unless local exhaust ventilation is available.

Frequently clean the work area with HEPA filtered vacuum or wet sweeping to minimize accumulation of dust.

Do not use compressed air to blow dust or fibers.

Fire prevention:

Prevent access by unauthorized personnel.

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the product is used

7.2. Conditions for safe storage, including any incompatibilities

Store dry and cool.

Packaging

Always keep in original wrapping until required for use.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- Germany - AGW (BAuA - TRGS 900, 21/06/2010) :

CAS	VME :	VME :	Excess	Notes
60676-86-0	-	0,3 mg/m3 A	-	DFG, Y

- Belgium (Order of 19/05/2009, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
60676-86-0	0.1 mg/m3	-	-	-	-

- Switzerland (SUVA 2009) :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Temps :	RSB :
60676-86-0	0,3 a	-	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
60676-86-0	0.08 mg/m3	-	-	-	R

8.2. Exposure controls

Suitable technical inspections

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.

If the ventilation is insufficient to maintain the concentration of dust below the exposure limits, wear breathing apparatus.

Avoid dust production by broken fibres.

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

Wear suitable protective clothing (long underwear).

- Respiratory protection

Avoid breathing dust.

Type of FFP mask :

Wear a disposable half-mask dust filter in accordance with standard EN149.

Particle filter according to standard EN143:

- P3 (White)

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state :	Pale brown/white tissue
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Important health, safety and environmental information

pH :	Not relevant.
Flash point interval :	Not relevant.

Water solubility :	Insoluble.
9.2. Other information	
Flammability	Material will burn only until organic binder is burnt out.
Density:	90-150kg/m ³

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This article is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid formation of dusts

10.5. Incompatible materials

Strong oxidising agents

10.6. Hazardous decomposition products

Prolonged exposure to >1300°C causes the quartz to be transformed into cristobalite.

Upon exposure to temperature above 200°C, the epoxy binder will degrade releasing smoke, hydrocarbons, H₂O, CO, CO₂.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Handling silicate filaments can cause temporary irritation to skin and the upper respiratory tract.

Chopped strand Quartz fibres (High purity fused amorphous silica glass fibres):

There are no known chronic health effects connected with the long term use or contact with continuous filament glass fibres.

The evidence from human and animal studies was evaluated by the International Agency for Research on Cancer (IARC) as insufficient to classify continuous filament glass fibre as a possible, probable or confirmed cancer causing material.

IARC has classified both continuous filament glass fibres and Amorphous silica as "not classifiable as to its carcinogenicity to humans (Group 3)"

As with any dust pre-existing upper respiratory and lung diseases such as bronchitis, emphysema or asthma may be aggravated.

Epoxy binder:

Cured epoxy resin is generally considered to be inert.

Dust released from cutting or machining cured epoxy resin is generally considered to be a nuisance dust; inhalation of the dust may irritate the upper respiratory system or aggravate pre-existing lung diseases.

Cured epoxy resin is not a primary skin irritant. Isolated cases have been reported of allergic responses in individuals already sensitised to un-cured epoxy resin or epoxy curing agents following exposure to cured epoxy resin dusts. The allergic response is due to the release of un-reacted curing agent fumes from bubbles set in the cured resin.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.2. Mixtures

No aquatic toxicity data available for the article.

12.2. Persistence and degradability

Non biodegradable (silica) - The binder is biodegradable.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK) :

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste is not classified as hazardous waste and may be disposed in a normal licensed industrial waste site.

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

14.1. UN number

-

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

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14.6. Special precautions for user

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SECTION 15 : REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 1297/2014.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

As we do not know all the user's working conditions, the data contained in this safety data sheet are based on our knowledge and national and European regulations.

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.