

MATERIAL SAFETY DATA SHEET



*EU Safety Data Sheet according to Attachment II EC Reg. 1907/2006 (REACH)
with its amendment Regulation (EU) 2015/830*

Version: 04

Note: Non-hazardous material, therefore it is not necessary to provide you with a safety data sheet according to Article 31 of the EC Regulation 1907/2006 (REACH).

1. Identification of the substance / mixture and of the company/undertaking

1.1 Product identifier

Trade name : **Borosilicate glass SIMAX®**

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

Product use: Use in manufacture of glass articles

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier: KAVALIERRGLASS, a.s.
Křížová 1018/6
150 00 Praha 5
Czech Republic

Factory: Sklářská 359
285 06 Sázava
Czech Republic

Phone: ++420 327 550 111
Fax: ++420 327 321 426
Web: www.kavalier.cz
E-Mail: kavalier@kavalier.cz

1.4 Emergency telephone number

Emergency information: Phone: ++420 327 550 111
This telephone number can be reached during Office Hours (MEZ):
Monday - Friday: 7.00 AM – 02:00 PM

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified



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2.2 Label elements

Non-applicable

2.3 Other hazards

Non-applicable

3. Composition / information on ingredients**3.1 Substance**

Chemical description: Glass is a solid material produced by combining various raw materials (e.g. oxides, carbonates, etc.), melting these components together, and cooling to a non-crystalline solid having its own properties.

Ingredients:

CAS #	EINECS #	Component	Percent
65997-17-3	266-046-0	Glass, oxide, chemicals	100

3.2 Mixture

Non-applicable

4. First-aid measures**4.1 Description of first aid measures**

General Advice: This is a non - combustible, non - reactive solid material. It is supplied in the form of glass articles. Inorganic glass has shown no physiological effects on humans in the stable condition in which it leaves our manufacturing facilities. The company is not aware of any research studies that contradict our above statement.

First aid: *Inhalation* Not applicable

First aid: *Skin* Cuts or abrasion should be treated promptly with thorough cleansing of the affected area.

First aid: *Eye* Eye injuries from glass particles should be treated by a physician immediately.

First aid: *Swallowing* Seek medical attention if material is ingested.

Advise to the physician: Decontamination and symptomatic treatments are in most cases sufficient.



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4.2 Most important symptoms and effects, both acute and delayed

Non-applicable

4.3 Indication of any immediate medical attention and special treatment needed

Non-applicable

5. Firefighting measures

5.1 Extinguishing media

The product itself is neither combustible nor explosive. Extinguishing agents has to be coordinated with the surrounding fire.

5.2 Special hazards arising from the substance or mixture

No information available

5.3 Advice for firefighters

Extinguishing agents and protective equipment has to be coordinated with surrounding fire.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid creating dusts. Do not inhale any dust.
- Prevent breakage. When broken cullet formed.
- Sweep up and shovel product or the other means and place in container for reuse (preferred) or disposal.

6.2 Environmental precautions

This product is not classified as a dangerous to the environment. It is not necessary to take actions in respect of product.

6.3 Methods and material for containment and cleaning up

Sweep up and shovel product or the other means and place in container for reuse (preferred) or disposal.

6.4 Reference to the other sections



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7. Handling and storage

7.1 Precautions for safe handling

Safety advice: Prevent breakage. When broken cullet formed.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage No special storage necessary. Store in dry area.

Joint storage: No specially known incompatible materials.

Storage class: LGK 13 (non-flammable solid materials)

7.3 Specific and use(s)

It is not necessary to provide any special recommendation regarding the uses of this product.

8. Exposure control / personal protection

8.1 Control parameters

The applicable limits which are to be complied with and monitored, particularly during mechanical processing with a risk of dust:

Parameter	CAS #	EINECS #	Value	Type of limit
General dust limit	----	----	10 mg/m ³ E 3 mg/m ³ A	Limit at work (AGW) according to the TRGS 900 Regulation
Silica, amorphous (Silicon dioxide)	7631-86-9	231-545-4	4 mg/m ³ E	Limit at work (AGW) according to the TRGS 900 Regulation
				E = breathable dust A = alveolar dust

8.2 Exposure controls

General advice: Use good hygiene practises when handling this material.

Hand protection: Be careful when this product is broken.
Be careful when this product is hot. Wear protective gloves.

Eye protection: None necessary during normal handling and use.

Respiratory protection: None necessary during normal handling and use.

Environmental exposure controls:

There are no known properties of the product, that pose dangers to the environment. General operational measures are sufficient to protect the environment.



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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	solid
Appearance:	clear
Odour:	odourless
Odour threshold:	no data available
pH	no data available
Melting point:	1260°C
Softening point (Littleton point):	820°C (10 ^{7,65} dPas)
Transformation temperature:	525°C
Initial boiling point and boiling range:	no data available
Flash point:	no data available
Evaporation rate:	no data available
Flammability:	non - flammable
Vapour pressure:	no data available
Vapour density:	no data available
Specific density:	2.23±0,02 g/cm ³
Water solubility:	insoluble in water
Partition coefficient: n-octanol / water	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
Viscosity:	no data available
Explosive properties:	no data available
Oxidising properties:	no data available

9.2 Other information

There are no further details required regarding safety-relevant parameters.

10. Stability and reactivity

10.1 Reactivity

In case of appropriate handling and storage no dangerous reactions will occur.



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10.2 Chemical stability

Chemically stable under the conditions of storage, handling and use.

Chemical resistance according to the ISO norm:

Hydrolytic resistance of glass grains at 98°C :	HGB 1 (ISO 719)
Hydrolytic resistance of glass grains at 121°C:	HGA 1 (ISO 720)
Acid resistance of glass:	S1 (ISO 1776)
Alkali resistance of glass:	A2 or better (ISO 695)

10.3 Possibility of hazardous reactions

None expected under normal conditions of handling and use.

10.4 Conditions to avoid

Extremely high temperatures.

10.5 Incompatible materials

Strong acid – Hydrofluoric acid.

10.6 Hazardous decomposition products

11. Toxicological information

11.1 Information on toxicological effects

There is no toxicological data available.

12. Ecological information

The experimental information related to the eco-toxicological properties of the product itself is not available.

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.



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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

Not described.

13. Disposal considerations

No information available.

13.1 Waste treatment methods

Re-use product again is possible. Glass products may be recycled.

14. Transport details

Non-hazardous materials in terms of ADR/GGVS, RID/GGVE, ICAO/IATA, IMDG.

15. Regulatory information

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

Non-hazardous material, therefore it is not necessary to provide you with a safety data sheet according to Article 31 of the EC Regulation 1907/2006 (REACH).

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. Additional information

Other information

All details noted in this data sheet correspond to our knowledge at the time this data sheet has been put into effect. This information should be used as a guideline for a safe treatment



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in accordance with the products mentioned in our material safety data sheet, during storage, production, transport and disposal. This information is not applicable to other products, to newly produced materials, if the product mentioned in this material safety data sheet is mixed or blended with other articles or when other transformations are made to it.