



Material safety data sheet
According to EU Regulation 1907/2006 in the current version
Glass containers

1. Identification of the substance/mixture and company

General name : Glass containers (bottles, jars)
Chemical family : Sodic calcium glass
CAS No. : 65997-17-3
EINESCS No. : 266-046-0
REACH registration No. : This glass is not subject to registration
Utilization: Industrial and professional use
Supplier company identification: **Elemental SRL**, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.elemental.eu
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.
International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture

Inorganic glass is not classified as dangerous.

2.2 Label elements

No labeling required.

2.3 Other hazards

Glass is not dangerous at normal usage. Processing of glass, damage or breakage can result in sharp edges. This may cause cuts. Processing of glass can result in glass dust.

Acute effects: Respiratory irritation. Chronic effects: Possible pneumoconiosis effects.

Grinding debris and other waste of glass must be disposed consistent with applicable regulations.

3. Declaration of ingredients

3.1 Substances

As the substance glass is not included in the candidate list of substances of very high concern, currently there are no information duties according to article 33 of REACH. However for the production of glass we may use substances, which are on the candidate list and had been included in Annex XIV of the REACH regulation or could be included in future. These powdery substances are not present as such in the final glass; they are fully integrated into the glass matrix through the melting process. Thus they lose their original characteristics

SiO ₂	69÷73 %
Al ₂ O ₃	1÷3 %
Na ₂ O	11÷14 %
K ₂ O	0,3÷1 %
CaO	8÷11 %
Other components (Ba, Fe, Ti)	< 3 %



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3.2 Mixtures

Glass is classified as substance acc. to regulation (EC) No 987/2008 (amending of Reach-Reg.).

4. First aid measures

4.1 Description of first aid measures

General information

Glass is no hazardous substance. The following information refer to glass dust and glass splinter which may result from processing or breakage.

After inhalation Supply fresh air; consult doctor in case of complaints

After skin contact Normally not dangerous. Consult doctor in case of complaints.

After eye contact Rinse under running water. Consult doctor in case of complaints.

After swallowing Consult doctor

4.2 Most important symptoms and effects, both acute and delayed

none known

4.3 Indication of immediate medical attention and special treatment needed

none

5. Fire fighting measures

5.1 Extinguishing media

no requirements, not flammable

5.2 Special hazards arising from the substance or mixture

None. Glass is noncombustible.

5.3 Advice for firefighters

none

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

To pick up broken glass you have to use the usual precautions. You have to aspire and sweep the pieces of glass avoiding to produce powders, put glass fragments inside closed containers. Eliminate the waste in accordance with the law in force for this subject.

6.2 Environmental Precautions: none



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6.3 Methods and material for containment and cleaning up

none

6.4 Reference to other sections

none

7. Handling and storage

7.1 Precautions for safe handling

Avoid breakage because of injury risk by sharp edges.

7.2 Conditions for safe storage, including any incompatibilities

Store in dry environment. Avoid excessive humidity.

7.3 Specific end use(s)

see section 1.2

8. Exposure controls / personal protection

8.1 Control parameters

In case of dust formation, declaration for FUSED SILICA, CAS-No: 60676-86-0

Regulation	TRGS 900 - GERMAN OCCUPATIONAL EXPOSURE LIMIT VALUES (01/2006)
Value	0,3 mg / m ³ (EXPOSURE LIMIT VALUE) with reference to the respirable fraction.
Peak limit	no information
Teratogenic	There is no reason to fear a risk of damage to the developing embryo or foetus when limit value is adhered to

8.2 Exposure controls

Technical measures and appropriate work processes have higher priority than personal protective equipment. Provide adequate ventilation by local exhaust ventilation or ventilation in general.

Adequate assessment tools for verification of effectivity of the protective measures includes methods of measurements as described in "Technischen Regeln für Gefahrstoffe (TRGS) 402.

The fabrication process changes the silica physical structure from a crystalline to an amorphous state. The contact with the powder produced by cutting or crumbling the glass, could cause irritation to the primary respiratory tracts.

The glass products are chemically stable and have got a high resistance against acid and basic attacks.

The primary potential risks are the checks produced by the broken containers.

Respiratory Protection	Technical measure: wet grinding/processing, avoid dust formation. If glass dust or particulates are above the national exposure limits use a national approved respirator for dust and fibers.
Hand Protection	Use protective gloves and safety wristbands for protection against cut injuries.
Eye Protection	Use industrial safety glasses that meet national standards.



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Personal Protection Use safety skirting for protection from sharp edges. Wear safety shoes.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state solid

Colour transparent or coloured

Odour odourless

pH-value not applicable

Boiling point/boiling range not applicable

Melting point/melting range 1450 °C, Transformation temperature according to ISO 7884-8

Flashpoint not combustible

Combustibility not combustible

Ignition temperature none

Auto flammability none

Danger of explosion none

Explosive limits upper / lower none

Oxidizing characteristics none

Vapour pressure 0 mm Hg at 20 °C

Density (20 °C) 2,5-2,6 g/ccm

Water solubility not applicable

Fat solubility not applicable

n-octanol-water partition coefficient none

9.2 Other information

none

10. Stability and reactivity

10.1 Reactivity

Glass is a stable material. Glass is inert to many chemicals, but may react to hot, strong alkaline solutions and with hydrofluoric, fluorosilicic and phosphoric acids. When heated to temperatures above the melting point, metal oxide fumes may be emitted.

Glass is an amorphous, inorganic, usually transparent or translucent substance consisting of a mixture of silicates or sometimes borates or phosphates as glass formers. With additions of modifiers a melt is produced at high temperatures, that cools to a solid state without crystallization.

10.2 Chemical stability

Glass is stable at normal environmental conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions at intended use.

10.4 Conditions to avoid

see section 10.1



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10.5 Incompatible materials

see section 10.1

10.6 Hazardous decomposition products

see section 10.1

11. Toxicological information

11.1 Information on toxicological effects

Toxicological data are not available. If the product is correctly used there are no known bad effects for one's health. This is the result of many experiments made over the past years.

12. Ecological information

12.1 Toxicity

The product is not soluble in water and not dangerous for fish and bacteria. The material does not produce dangerous effects on the environment if disposed in accordance to the law concerning this subject.

12.2 Persistence and degradability

unknown

12.3 Bioaccumulative potential

unknown

12.4 Mobility in soil

unknown

12.5 Results of PBT and vPvB assessment

unknown

12.6 Other adverse effects

unknown

13. Disposal considerations

13.1 Waste treatment methods

Disposal according to local regulations. The product is recyclable if not contaminated by any substance. If contaminated by other materials you have to respect the laws concerning this subject.

14. Transport information

14.1 UN Number

no requirements



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14.2 UN Proper Shipping Name no requirements

14.3 Transport hazard class(es) no requirements

14.4 Packing group no requirements

14.5 Environmental hazards no requirements

14.6 Special precautions for user no requirements

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code no requirements

15. Regulatory information

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

REACH Under REACH glass is classified as a „Substance“. According to Appendix V Number 11 of the REACH regulation glass is exempted from registration if specified conditions are met. This glass is not subject to registration.

RoHS This glass does not contain - according to our knowledge - materials in concentrations, whose placing on the market is forbidden in accordance to the current requirements of the European Directive 2011/65/EU.

United Nations Globally Harmonized System (UN-GHS) related to safety information.

This information considers also the requirements of the UN-GHS related to safety information.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16. Additional information

Glass is not a substance of very high concern (SVHC).

16.1 Disclaimer

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.