



ULLMANNGLASS

MATERIAL SAFETY DATA SHEET (MSDS)
- ULLMANNGLASS 116/3
(according to EU 2015/830 update of EG 1907/2006)

Issue date: 1994-05-26
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1. Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier
ULLSOL – BF/II
inorganic, clear glass, no free oxides, all components from silicates. No toxic effects or ecologic pollution known.
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:
To be used as an overglaze on fused glass surfaces. In certain cases, can act as an overbridging agent for different COE's.
- 1.3. Details of the supplier of the safety data sheet:
ULLMANNGLASS Gmbh
Siegstatt 2 – 4
94486 Osterhofen
Germany
Phone: +49 (0) 9932 – 9548 -0
info@ullmannglass.de
- 1.4. Emergency telephone number:
mobile phone: +49 (0) 171 513 51 68

2. Hazards Identification

- 2.1. Classification of the substance or mixture:
Glass: No known hazards if general industrial health and safety standards are observed.
- 2.2. Label elements:
None
- 2.3. Other hazards:
None

3. Composition/information on Ingredients

- 3.1. Substances:



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	Chemicals	%	risk codes	CAS #
	SiO ₂	Silicon dioxide	47,97%	14808-60-7
	B ₂ O ₃	Boron oxide	25,59%	1303-89-2
	Al ₂ O ₃	Aluminium oxide	5,12%	1344-28-1
	Na ₂ O	Sodium oxide	21,32%	1313-59-3

3.2. Mixtures

The above listed chemicals are molten down in the glass and implemented in the glass matrix.

4. First aid measures

4.1. Description of first aid measures:

Inhalation: Remove to fresh air. Seek medical attention.

Eye contact: Flush well with running water. Seek medical attention.

Skin irritation: Wash with soap and water. Seek medical attention if irritation permits.

If swallowed: Seek medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed:

None

4.3. Indication of any immediate medical attention and special treatment needed:

None

5. Firefighting measures

Glass is a non-burnable substance

5.1. Extinguishing media:

Use extinguishing media that is appropriate for the classification of surrounding fire. Inorganic glass is non-combustible.

5.2. Special hazards arising from the substance or mixture:

None

5.3. Advice for firefighters

There is the possibility of flying glass fragments if hot glass comes in contact with water or carbon dioxide extinguishing media.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Use industrial safety glasses for eye protection.

Use protective gloves for protection from sharp edges.

Use filter mask while handling glass powders.

6.2. Environmental precautions:

None



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- 6.3. Methods and material for containment and cleaning up:
Clean mechanically, avoid the production of dust and proceed accordingly to local waste regulations.
- 6.4. Reference to other sections:
None

7. Handling and storage

- 7.1. Precaution for safe handling:
No special requirements, standard industrial care is recommended.
- 7.2. Conditions for safe storage, including and incompatibilities:
No special requirements, standard industrial care is recommended.
Avoid high humidity in storage facility.
- 7.3. Special end use(s):
None

8. Exposure controls:

- 8.1. Control parameters:
None
- 8.2. Exposure controls:
Clean mechanically, avoid the production of dust and proceed accordingly to local waste regulations.
Eye protection: usage of industrial safety glass is recommended
Hand protection: usage of cut protection gloves is recommended
Personal protection during handling of powders: usage of filter masks is recommended

9. Physical and chemical properties

- 9.1. Information on basic physical and chemical properties:

Appearance:	solid, amorphous
Color:	clear
Odor:	odorless
Density:	between 2,43 g/cm ³ at room temperature
PH:	neutral in water
Solubility in other solvents:	hydrofluoric acid
Expansion coefficient:	9,3 (+/-3)*10 ⁻⁶ /K (25-400°C)
- 9.2. Other information:
None



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10. Stability and reactivity

- 10.1. Reactivity:
Reacts with hydrofluoric acid.
- 10.2. Chemical stability:
Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
- 10.3. Possibility of hazardous reactions:
None
- 10.4. Conditions to avoid:
None
- 10.5. Incompatible materials:
None
- 10.6. Hazardous decomposition products:
None

11. Toxicological data

- 11.1. Information on toxicological effects:
No known toxicological effects.

12. Ecological Information

- 12.1. Toxicity:
None
- 12.2. Persistence and degradability
Substance will not degrade.
- 12.3. Bioaccumulative potential:
None; all glasses are insoluble in water.
- 12.4. Mobility in soil:
Mobility of glass chips in soil is only possible by mechanical means and comparable to the mobility of sand (of the same grain size as the glass chips) in soil.
- 12.5. Results of PBT and vPvB assessment:
There is no chemical safety report necessary.
- 12.6. Other adverse effects:
None known

13. Disposal consideration

- Follow federal, state and local regulation for recycling of glass and glass products.
- 13.1. Waste treatment methods:
All glasses are insoluble in water.



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14. Transport information

No specific requirements.

According to section 6.1.4.20 of the "Recommendations on the TRANSPORT OF DANGEROUS GOODS, Model Regulation, Volume II, Nineteenth revised edition" of the United Nations, glass itself (e.G. containers made of glass) is considered a packaging material for dangerous goods, Un-Rated packaging is therefore not necessary for glass.

14.1. UN number:

None

14.2. UN proper shipping name:

None

14.3. Transport hazard class(es):

None

14.4. Packing group:

None

14.5. Environmental hazards:

None

14.6. Special precautions for user:

None

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code:

None

15. Regulatory Information

All materials of the MSDS are not stated in the registers of hazardous materials.

There is no specific labelling necessary.

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

None

15.2. Chemical safety assessment:

The supplier has **not** carried out a chemical safety assessment for the substance.

16. Other Information

This Material Safety Data Sheet (MSDS) is valid exclusively for the product in the form Ullmannglass GmbH is selling it. All information is provided in good faith and to the best of Ullmannglass's knowledge as accurate and reliable at the date of publishing. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness.