

Product: Metal-coated sheet glass - SGGBIOCLEAN® II /
SGGPLANITHERM® / SGGCOOL-LITE® / SGGMIRASTAR®

Safety data sheet according to 91/155/EEC

1. Substance-/Preparation- and Company Identification

Trade name: **Metal-coated sheet-glass - sggBIOCLEAN® II/
sggPLANITHERM®/sggCOOL-LITE®/sggMIRASTAR®**

Company: Saint-Gobain Glass Deutschland GmbH
Viktoriaallee 3-5
52066 Aachen

Emergency phone no.: ++49 (0)241/516-0

2. Composition / Information on ingredients

The product is not subject to the directives 67/548/EEC and 88/379/EEC

Chemical characterization

Glass: The product glass is manufactured and marketed in form of sheet-glass. It is under normal environmental conditions inert. The glasses are manufacture from mostly natural raw materials, merely soda and sulfate are chemical products.

Coating: To guarantee thermal- and sun-protective properties, the protection-glasses are covered with metaloxides of silver, nickel and chromium, in layers of 0.6 to 125 nm. In case the processing requires de-coating of the edges of the sheets (sanding), metal-containing dust is emitted.

Ingredients of the glass	CAS-Nor.	EINECS-No.	Hazard designation / R-phrases	% w/w
quartz sand				approx. 58%
soda	497-19-8	207-838-8	Xi / R 36	approx. 19%
dolomite				approx. 16%
limestone				approx. 5 %
Nephelin				approx. 1%
sulfate				approx. 0,5 %

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Ingredients of the coating	CAS-No.	EINECS-No.	Hazard designation / R-phrase	Weight portion mg/m ² sheet
tinoxide			see point 8.	14 - 90
zincoxide			see point 8.	0 - 7
silver			see point 8.	9 - 24
nickel			see point 8.	2 - 10
chromium			see point 8.	0 - 25
siliziumoxid			see point 8.	1 – 10
titandioxid			see point 8.	2 – 9
siliziumnitrat			see point 8.	0 – 50

For the manufacturing of the products SGGBIOCLEAN® II, SGGPLANITHERM®, SGGCOOL-LITE® and SGGMIRASTAR® none of the following substances is used:
Lead (Pb) or lead-containing mixtures, cadmium (Cd) or cadmium-containing mixtures, mercuri (Hg) or mercuri-containing mixtures, brom (Br), dibutylphthalate, chlorinated hydrocarbons, nonylphenoletoxylate, octylphenoletoxylate, organotin compounds.

3. Hazards identification

Hazard designation: None required

Information pertaining to particular dangers to man and environment:

R-phrases: None

4. First Aid measures

After inhalation: Not applicable

After skin contact: Wash off with water and soap

After eye contact: Rinse eyes with water

After ingestion: Not applicable

5. Fire fighting measures

Suitable extinguishing agent: Depends on the environment

Special exposure hazards: Not applicable

Protective equipment for fire fighters: Not applicable

Further information: None

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6. Measures in case of accidental release

Personal precautions: Not applicable
Measures for cleaning up: Not applicable
Measures for environmental protection: Not applicable

7. Handling and storage

Handling/Storage: Note: For quality reasons special requirements, which are laid down in the corresponding guidelines on processing, apply to the handling and storage of the coated glasses.

8. Exposure control and personal protection

Personal protection equipment:

Respiratory protection: Protection against dust/breathing filter; in case sheets are sanded in a work area without proper air suction device (see also TRGS 900 „Grenzwerte in der Luft am Arbeitsplatz – Luftgrenzwerte“ („Limit values for the air at the work place - air limit values“)).

Limit value for the fraction that can be inhaled: 10 mg/m³

Limit value for the fraction that can pass the alveoli: 3 mg/m³

Eye protection: Safety glasses; Required to protect from glass splinters during the de-coating of the edges of the sheet

Hand protection: Cut-proof safety gloves with artery protection; Required during the de-coating of the edges of the sheet

Head protection: Helmets have to be worn when sheets reach or exceed the height of the head due to their own height, or during transportation or processing.

Hygienic measures in the workplace:

Do not smoke, eat or drink while handling the glasses. Wash hands at the end of the work. Preventive skin protection is recommended.

The de-coating of the edges should only be performed with functioning dust collection unit with proper air filtration. The cleaning of used filters should be performed only according to the corresponding instructions and the appropriate protection measures should be taken. In general it is preferable to exchange the filters rather than to clean them.

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9. Physical and chemical properties

Form: Solid
Colour(s): Colourless
Odour: Odourless

	<u>Value/range</u>	<u>Unit</u>	<u>Method</u>
Change in physical condition			
- Melting point:	Not applicable		
- Boiling point:	Not applicable		
Flame point:	Not applicable		
Ignition temperature:	Not applicable		
Explosion limits			
lower:	Not applicable		
upper:	Not applicable		
Density of the liquid at 20 °C:	Not applicable		
Solubility in water at 20 °C:	Not applicable		
pH-value at 20 °C:	Not applicable		

10. Stability and reactivity

Conditions to avoid: Not applicable
Materials to avoid: Not applicable
Hazardous decomposition products: Not applicable
Further information: None

11. Toxicological information

Acute toxicity: Not applicable
Further toxicological information: Not applicable
Further information: Not applicable

12. Ecological information

Ecotoxicological effects: Not applicable
Further ecological information: Not applicable

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13. Disposal considerations

Product:

Glass, including coated glass like SGGBIOCLEAN® II/SGGPLANITHERM®/SGGCOOL-LITE®/SGGMIRASTAR®, is ideal for recycling and should be brought to sheet-glass recyclers. Pieces that cannot be separated any more can be used as inert rubble or disposed of.

In Germany the precept to reuse has been laid down in the Kreislaufwirtschafts- und Abfallgesetz "cycle economics and waste law" (KrW/AbfG); correspondingly it has to be distinguished between "waste for re-use" and "waste for disposal". Special cases - especially concerning the delivery to the facility – are furthermore also regulated by the individual lands of the Federal Republic of Germany. Please contact the responsible office (either authority or waste management company) where you can receive information on re-use or disposal.

Packaging:

Dispose according to the official instructions.

Filter/filter-dust after de-coating the sheet edges:

Dispose according to the official instructions; see also comments under point 8.

14. Transport information

Land transport ADR/RID and GGVS/GGVE

Not applicable

Inland navigation transport ADN/ADNR

Not applicable

Maritime transport IMDG/GGVSee (Not applicable)

Air transport ICAO-TI and IATA-DGR (Not applicable)

The regulations on transport are cited in their international version and in the version that is valid in Germany (GGVS/GGVE). Possible deviations in other countries are not taken into account.

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15. Regulatory information

The product is not subject to 67/548/EEC and 88/379/EEC

Designation according to EC-Guidelines/GefStoffV:

Symbols: Not applicable

R-phrases: Not applicable

S-phrases: Not applicable

German regulations

Water hazard classification: Not applicable

Storage classification VCI: Not applicable

16. Other information

None

The information presented is based on present knowledge and does not constitute a guarantee for any product properties. It is the sole responsibility of the receiver of our product to comply with existing regulations and instructions.

During the processing of glass, new hazards may arise that are characteristic for the applied procedure and measures. In these cases the user has to become acquainted with the corresponding regulations of the professional trade association and legal regulations.

This safety data sheet was prepared by: Zentrales EHS-Management der
SAINT-GOBAIN GLASS Deutschland GmbH
Viktoriaallee 3 – 5
52066 Aachen
GERMANY