

## MATERIAL SAFETY DATASHEET

### Products family: Sunlux, iplus, Energy Light, Stopray Smart, Stopray Ace, Stopray Vision, Stopray Titanium

Glass panes produced by AGC Obeikan Glass are not substances nor mixtures but articles under the REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH Regulation"). Soda-lime silicate glass that constitutes the flat glass panes is not a hazardous substance. Therefore no Safety Data Sheet (SDS) nor safety labelling are legally required for these products.

The present Material Safety Datasheet together with the technical documents available on [www.agc-yourglass.com](http://www.agc-yourglass.com) will help our clients to achieve safe use of our products.

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Trade name and symbols	:	Sunlux Chroma, Sunlux DarkChroma, Sunlux Shadow 14, Sunlux Shadow 20, Sunlux Shadow 32, iplus Solid, iplus AS, Energy Light, Stopray Smart 18, Stopray Smart 30, Stopray Smart 51, Stopray Vision-40T, Stopray Vision-51T, Stopray Vision-72T, Stopray Ace-30T, Stopray Titanium-34T
Chemical name and synonyms	:	Glass, Soda-lime silicate glass
Relevant identified uses	:	Products manufactured from flat glass for use in building applications
Manufacturer name	:	Al Obeikan AGC for Glass LLC
Address	:	Light Industrial Park 41912, P.O.Box 30083, Yanbu, KSA
Phone	:	+966 14 393 10 71
Email	:	<a href="mailto:info@agc-obeikanglass.com.sa">info@agc-obeikanglass.com.sa</a>

### SECTION 2 : HAZARDS IDENTIFICATION

**Classification of the substance or mixture:** The products referred to in this document are not substances or mixtures but articles according to REACH Regulation.

**Classification according to CLP Regulation (EC) No 1272/2008:** Not classified.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC:** Not classified.

**Information concerning particular hazards for human and environment:** Personal injuries (cuts and contusion) may occur in case of fall, breakage or mishandling of the glass. During processing of the glass panes (cutting, edge grinding, bevelling, grinding, etc.) glass dust can be released.

**Labelling according to CLP Regulation (EC) No 1272/2008:** Not applicable.

**Hazard pictograms:** Not applicable.

**Hazard statements:** Not applicable.

**Other hazards: Results of PBT and vPvB assessment:**

**PBT:** Not applicable; **vPvB:** Not applicable.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

The mentioned glass products are “articles” in accordance with article 3(3) of REACH Regulation. They are manufactured from soda-lime silicate glass according to the European Standard EN 572.

Name	CAS number	EINECS Number	%
Soda-lime silicate glass	65997-17-3	266-046-0	>99,8

Soda-lime silicate glass is an amorphous inorganic substance obtained from different inorganic raw materials which react at high temperature to form a new random network, where different elements are linked together, typically by oxygen bridges, arranged in such a way that no free oxides are present. Under REACH Regulation glass is considered as a UVCB substance (substance of Unknown or Variable composition, Complex reaction products or Biological materials).

This soda-lime silicate glass type benefits from exemption from the obligation to register in accordance with Article 2(7)(b) of REACH Regulation<sup>1</sup>, and Annex V(11).

Soda-lime silicate glass can better be identified by the chemical formula:  $\text{Na}_n\text{Ca}_o\text{Mg}_p\text{Al}_q\text{.....Si}_m\text{O}_s$

Where:  $s = n/2 + o + p + 3q/2 + \dots + 2m$

Example:  $\text{Na}_{1,8}\text{Ca}_{0,6}\text{Mg}_{0,4}\text{Al}_{0,05}\text{Si}_5\text{O}_{12}$

The magnitude of the proportions by mass of the principal constituents of soda-lime silicate glass is as follows<sup>2</sup>:

Silicon (Si)	32% to 35%	Magnesium (Mg)	0% to 3,7%
Calcium (Ca)	3,5% to 10,1%	Aluminium (Al)	0% to 1,6%
Sodium (Na)	7,4% to 11,9%		

Oxygen represents the balance to 100%, according to the above-mentioned formula.

In addition to the general composition, these glass sheets may also contain small quantities of other elements such as K, Fe, etc. Trace elements such as Fe, Co, Se, Cr, etc. may be added in order to modify the optical properties of the glass and/or because glass is made off natural raw materials.

### SECTION 4: FIRST AID MEASURES

**Eye:** In case of glass dust contamination, rinse eye immediately for several minutes with large volumes of running water. Contact physician.

**Skin:** Brush off dust on the skin and wash with water. Do not rub. In case of laceration, seek appropriate first aid or medical attention for cut and bleeding.

**Glass dust inhalation:** Remove from exposure, supply fresh air and contact physician.

**Glass dust ingestion:** Seek medical attention.

### SECTION 5: FIRE-FIGHTING MEASURES

**Flash point:** Non-flammable.

**Flammable Limits:** Not applicable.

**Extinguishing Media:** Not applicable.

**Special Fire Fighting Procedures:** Not applicable.

**Special Fire and Explosion Hazards:** Not applicable.

<sup>1</sup> Commission Regulation (EC) No 987/2008.

<sup>2</sup> European Standard EN 572-1.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

In case of fall or breakage, glass should be handled with care to avoid injuries.

**Protection for the environment:** No hazardous effect known.

Glass is not a hazardous waste, it should be treated according to local legislation. It can be easily recycled (glass is 100% recyclable).

**SECTION 7: HANDLING AND STORAGE**

Manipulate with care, edges can be sharp.

Store in a well-ventilated room avoiding direct sunlight and away from heat and moisture.

Store in vertical position according to the European Standard EN 13035 -1 to avoid fall and breakage.

Personnel should wear appropriate Personal Protective Equipment such as head, eyes, feet, arms and hands protection designed for glass manipulation (e.g., anti-cut protection).

*For more detailed information by glass product type, see technical documents available on [www.agc-yourglass.com](http://www.agc-yourglass.com) and [www.agc-obeikanglass.com.sa](http://www.agc-obeikanglass.com.sa).*

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Flat glass products in their normal state do not present an inhalation or ingestion hazard.

**Respiratory protection:** Glass dust can be released during grinding, edge grinding, bevelling etc., of glass panes; respiratory protection is necessary when glass dust is expected.

**Eye protection:** Splinter of glass can be produced in case of breakage of glass panes; safety glasses should be worn.

**Skin protection:** Laceration is possible during handling; long sleeves and anti-laceration gloves should be worn.

**Other protective clothing or equipment:** Glass is heavy, long sleeves and apron anti-laceration equipment, safety shoes should be worn to avoid injuries in case of fall of glass panes.

**Work hygienic practices:** Use wet method for cutting and grinding to avoid dust generation. Cleaning should be done with wet method or vacuum cleaners.

*For more detailed information by glass product type, see technical documents available on [www.agc-yourglass.com](http://www.agc-yourglass.com) and [www.agc-obeikanglass.com.sa](http://www.agc-obeikanglass.com.sa).*

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Specific Gravity</b>	: 2,45 g/cm <sup>3</sup> .	<b>Boiling Point</b>	: Not applicable.
<b>Evaporation Rate</b>	: Not applicable.	<b>Water Reactive</b>	: Not reactive.
<b>Appearance/Odor</b>	: Clear or tinted solid having no odour.	<b>Vapour Density (Air = 1):</b>	: Not applicable.
<b>Melting (Softening) Point:</b>	>700°C.	<b>Flammability</b>	: Non-flammable.
<b>Solubility in Water</b>	: Insoluble.	<b>Explosivity</b>	: Non-explosive.
<b>Vapour Pressure</b> (mm Hg and Temp).	: Not applicable	<b>Oxidising properties</b>	: None.

**SECTION 10: STABILITY AND REACTIVITY**

**Stability:** Stable.

**Conditions to avoid (stability):** None.

**Incompatibility (material to avoid):** None.

**Hazardous decomposition or by-products:** No dangerous decomposition known.

**Hazardous polymerization:** None.

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**a SECTION 11: TOXICOLOGICAL INFORMATION**

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**Toxicological Information:** Flat glass products do not present any toxicity known. Glass dust can be generated during processing: cutting, edge grinding, breaking, drilling, etc. The dust generated is made of amorphous glass and is considered as general (inert) dust. No occupational exposure limit value is set for glass dust under the Council Directive 98/24/EC on the chemical agents at work, however, country specific exposure limits do exist across Member States for non-specified dust, or sometimes also for glass dust specifically.

Example of exposure limits:

- OSHA PEL-TWA3 (8 hours): 15 mg/m<sup>3</sup> total dust – particulates not otherwise regulated (PNOR)
- OSHA PEL-TWA (8 hours): 5 mg/m<sup>3</sup> respirable dust - particulates not otherwise regulated (PNOR)
- Limit value – Belgium<sup>4</sup> (8 hours): 10 mg/m<sup>3</sup> glass dust

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**SECTION 12: ECOLOGICAL INFORMATION**

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Glass is an inert product that has no adverse effect on the environment.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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Glass is an inert waste, it should be preferably recycled. If not recycled glass should be disposed of according local rules.

Additional information: Council Decision 2003/33/EC.

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**SECTION 14: TRANSPORT INFORMATION**

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Glass is not classified as hazardous under Regulation (EC) 1272/2008 and does not require specific transportation conditions. Glass is heavy and brittle, specific measures should be applied to avoid breakage during transportation.

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**SECTION 15: REGULATORY INFORMATION**

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**REACH Regulation (EC) No 1907/2006:** The substance "glass" and manufactured "articles" referred to in section 1 are exempt from REACH registration and do not require a Safety Data Sheet.

**CLP Regulation (EC) No 1272/2008:** Not classified.

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**SECTION 16: OTHER INFORMATION**

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The information provided in this Material Safety Datasheet is given in good faith and represents the present state of our knowledge. It is solely intended for the information of our customers and do not constitute a guarantee for any feature nor any legally binding obligation. The safety information contained in this document is complete but do not replace technical documents available on [www.-agc-yourglass.com](http://www.agc-yourglass.com). It is the responsibility of the user to ensure compliance with all applicable legislations and to determine the conditions of the safe use of the product.

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<sup>3</sup> Occupational Safety and Health Administration (US) – Permissible Exposure Limit.

<sup>4</sup> Arrêté Royal du 11 mars 2002 relatif à la protection des travailleurs.