



# Product Lens

a materials health assessment

## COMPANY AND PRODUCT INFO

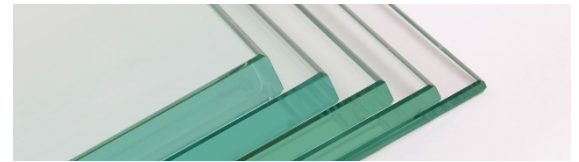
**Issued to** Guardian Glass AME & I Region

**For the Products** Clear Float Glass (Uncoated)

**Description** Float Glass (Guardian Float and MODIGUARD® Float) manufactured in AME & I region at Guardian Egypt, "Egypt"; Saudi Guardian International Float Glass Ltd, "Saudi Arabia"; Guardian Zoujaj International Float Glass Co. L.L.C, "United Arab Emirates" & Gujarat Guardian Ltd, "India. A wide range of sizes and thicknesses to suit any flat glass application prized for its high light transmission, optical clarity and ability to be fabricated and further processed to meet custom performance and aesthetics. Used in architectural products applications.

**Certification Period** July 1, 2020-July 1, 2023

**Assessor** **MBDC** basis methodology v3.1\*



## Qualifications

- LEED BPDO Credit: Material Ingredients Option 1  Qualifies for as 1 product
- LEED BPDO Credit: Material Ingredients Option 2  Qualifies for 100% of cost

## Other Achievements

Guardian Egypt Plant

- ISO 14001 2015
- OHSAS 18001 2007

## MATERIALS / INGREDIENTS INFORMATION

Disclosure Level: 100 ppm  1000 ppm

The following table represents the top 100% of the material ingredient disclosure and ratings. For the full ingredient disclosure information, please see the table on the reverse side.

Materials	Result			
	Supply Chain/ MFG	Install	Use	End of Use
Silica Sand	I			
Soda Ash				
Glass Cullet	D, I			
Dolomite	D, I			
Water				
Limestone	D, I			
Salt Cake				
Feldspar	D, I			

### Exposure Indicator

D = Dermal, Skin
I = Inhalation, air
O = Oral, mouth

\*No Indicator means no potential exposure scenario identified

### Color Ratings

	Low or mild hazard identified and/or potential exposure
	Moderate hazard identified and/or potential exposure
	Problematic concern found. The combination of the hazard and potential exposure leads to some caution for some uses and/or applications.
	Cannot be fully assessed due to either lack of complete formulation, or lack of toxicological information for one or more ingredients.
	Highly problematic material containing one or more chemicals classified as CMR and having a plausible route of exposure.

Go to <https://spot.ul.com/> to view the full, detailed materials ingredient list

**Guardian Glass**  
[www.guardianglass.com](http://www.guardianglass.com)

**Gujarat Guardian Limited**  
[www.gujaratguardianglass.com](http://www.gujaratguardianglass.com)



\*Methodology based on Cradle to Cradle Certified™ Product Material Health Assessment Methodology v3.1



CERTIFIED

PRODUCT LENS MATERIALS  
TRANSPARENCY AND  
DISCLOSURE.  
VIEW SPECIFIC INGREDIENTS  
AND EVALUATIONS:  
UL.COM/PL

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Material	CAS Number	Role	%	MFG	Install	Use	End of Use	Comment
Silica Sand	14808-60-7	Glass Raw Material	40 - 60%	I				Respiratory carcinogen. Engineering, administrative, and proper personal protective equipment (PPE) controls are ensured to mitigate risk in the manufacturing stage and crystalline substances (e.g. silica) are not present in the finished glass product.
Soda Ash	497-19-8	Glass Raw Material	10 - 20%					
Glass Cullet	99439-28-8	Glass Raw Material	15 - 25%*	D, I				Moderate eye/respiratory irritant in manufacturing stage. Engineering, administrative, and proper personal protective equipment (PPE) controls are ensured to mitigate risk in the manufacturing stage.
Dolomite	16389-88-1	Glass Raw Material	10 - 20%	D, I				Moderate eye/respiratory irritant in manufacturing stage. Engineering, administrative, and proper personal protective equipment (PPE) controls are ensured to mitigate risk in the manufacturing stage.
Water	7732-18-5	Glass Raw Material	< 5%					
Limestone	1317-65-3	Glass Raw Material	< 10%	D, I				Moderate eye/respiratory irritant in manufacturing stage. Engineering, administrative, and proper personal protective equipment (PPE) controls are ensured to mitigate risk in the manufacturing stage.
Salt Cake	7757-82-6	Glass Raw Material	< 2%					
Feldspar	68476-25-5	Glass Raw Material	< 5%	D, I				Moderate eye/respiratory irritant in manufacturing stage. Engineering, administrative, and proper personal protective equipment (PPE) controls are ensured to mitigate risk in the manufacturing stage.

\*Recycling cullet benefits Guardian float glass operations in several ways: recycled glass reduces CO2 process emissions and consumption of virgin raw materials; extends the life of plant equipment (such as furnaces); and saves energy. As of the date of issue, 15-25% represents the average amount of glass cullet (internal + external) recycled into each raw material batch for these Guardian facilities. Guardian is constantly innovating to identify new opportunities to optimize and increase the use of cullet while maintaining the stringent quality standards our customers value.

Guardian float glass products may be processed by downstream customers for architectural and interior design applications. Downstream glass fabricators may utilize additional materials during fabrication of their finished products. Accessory materials may vary depending on the type of installation, final application (e.g window vs. flooring) and other factors. For information concerning the contents of these related materials, please contact the fabricator directly.

Clear uncoated float glass products manufactured by Guardian do not contain asbestos or formaldehyde.

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	Highly problematic material containing one or more chemicals classified as CMR and having a plausible route of exposure.

