



CERTIFIED

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

Product Lens

a materials health assessment

COMPANY AND PRODUCT INFO

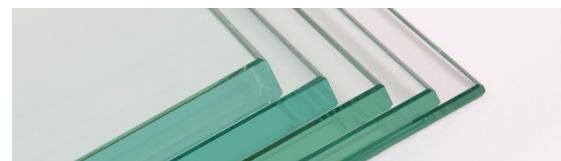
Issued to Guardian Glass AME & I Region

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 Valid Through December 2023

Assessor  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

Gujarat Guardian Limited
www.gujaratguardianglass.com

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





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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				The GHS hazard classification for silica is respiratory carcinogen. Engineering, administrative, and proper personal protective equipment (PPE) controls are implemented to mitigate risk in the manufacturing stage. Crystalline silica is 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 implemented 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 implemented 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 implemented 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 implemented to mitigate risk in the manufacturing stage.

*Reuse of cullet benefits Guardian float glass operations in several ways: it reduces consumption of virgin raw materials and associated CO2 process emissions; 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) reused into each raw material batch for Guardian facilities globally. 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.

	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.

