



Guardian Ventures Ltd

According to UN GHS (the 11th revised edition)

Material Safety Data Sheet (MSDS)

Product Name:	Zero silica slab
Model No.:	Aurora, Limestone Glow, Nimbus, Silk Drift, Stone Veil, Strata, Umber Light

Written by: Linda
(Linda)

Inspected by: Jose
(Jose)



ISSUED BY: ZHONGKE SERVICES OF TESTING (SHENZHEN) CO., LTD.

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Item No.:	NM033GVL
MSDS No.:	E20.260.618.001.GVL
Initial Date:	June 18, 2026
Revision Date:	June 18, 2026



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Query service

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Section 1

Identification of the substance/mixture and of the company/undertaking

Product identifier

Product Name:	Zero silica slab
Model No.:	Aurora, Limestone Glow, Nimbus, Silk Drift, Stone Veil, Strata, Umber Light
Brand:	EnduraStone

Relevant identified uses of the substance or mixture and uses advised against

Identified uses:	Panel for countertop fabrication
Uses advised against:	No special note

Details of the applicant, supplier

Company name:	Guardian Ventures Ltd
Address:	Lakeview Stables Kemsing Kent TN15 6NL
Post code:	/
Telephone:	03033 300 553
Fax:	/
E-mail:	/

Emergency telephone number

Emergency telephone:	03033 300 553
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Section 2

Hazards identification

Hazard class and label elements of the product according to GHS (the 11th revised edition):

GHS Hazard classification

Physical Hazard	Non-hazardous substance or mixture (Not Classified)
Health Hazard	Non-hazardous substance or mixture (Not Classified)
Environmental Hazard	Non-hazardous substance or mixture (Not Classified)

GHS label elements

Pictogram(s):	None
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Signal word:	None
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Hazard statements	Not applicable
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Other Hazards	No further known information
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Section 3Composition/information on ingredients

☐ Substance ☒ Mixture

Component(s)	Content (w/w, %)	CAS No.
Amorphous silicon dioxide	85.00~93.00	7631-86-9
Ethane-1,2-diol	7.00~15.00	107-21-1
Diethylene glycol		111-46-6
Propanediol		26264-14-2
Tert-Butyl Peroxy-2-ethylhexanoate	0.06~0.15	3006-82-4
Di-tert-butyl peroxide		110-05-4
Silane coupler (G-570)	0.07~0.30	2530-85-0
Titanium dioxide	0.00~1.00	1317-80-2
Carbon Black	0.00~0.80	1333-86-4
Iron oxide black	0.00~0.80	12227-89-3
Iron oxides	0.00~0.80	20344-49-4

Section 4First aid measures

Description of first aid measures	
General advice:	Show this safety data sheet to the doctor in attendance. After receiving the first-aid measure required, consult a physician if necessary.
Skin contact:	It is harmless if used as intended. Wash with water if you worry.



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Eyes contact:	If the mucous membrane of the eye or the like is irritated by fumes, steam, fine particles, etc., check for and remove any contact lenses, occasionally lifting the upper and lower eyelids. Immediately flush eyes with running water, disappear until the chemical residues so far. Provide a readily-accessible eyewash facility and quick-drench safety shower. Do not rubbing eyes with hand. If symptoms develop and persist, consult a physician.
Inhalation:	If inhales plenty of steam, power or dust, move exposed person to fresh air. Maintain an open airway. Keep person warm and at rest. If breathing is irregular, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe.
Ingestion:	If the product is in the form of chip and there is a possibility of swallowing: If swallowed: If swallowed in a large quantity, consult with the physician, though the product is low in oral toxicity.

Most important symptoms and effects, both acute and delayed

- | | |
|---|--|
| 1 | The most important known symptoms and effects are described in section 2 and/or in section 11. |
|---|--|

Indication of any immediate medical attention and special treatment needed

- | | |
|---|---|
| 1 | Continue with first aid measures. Treat symptomatically and supportively. |
| 2 | Symptoms may be delayed. |

Section 5

Firefighting measures

Extinguishing media

Suitable extinguishing media:	Use water spray, dry sand, dry chemical or CO₂ foam extinguishing. Water spray can be used to cool fire exposed containers/materials. Use extinguishing media most appropriate for the surrounding fire.
Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter or spread fire.

Special hazards arising from the substance or mixture

- | | |
|---|--|
| 1 | If this product is involved in a fire, the following can be released: Silicon oxides, metal oxides. etc. |
|---|--|

Fire precautions and measures

- | | |
|---|---|
| 1 | Firefighters must wear self-contained breathing apparatus, wear full body fire suit, fire extinguishing |
|---|---|



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in the upwind.

- 2 As far as possible will be transferred to empty containers from the scene.
- 3 Keep the fire water spray containers cooling, until the end of fire.
- 4 If the containers in the fire ground have been color, must be evacuated immediately.
- 5 Isolated accident scene, prohibit access.
- 6 Receiving and processing of fire, to prevent environmental pollution.

Section 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- 1 Since the product is a solid matter, there will be usually no leakage.

Environmental precautions

- 1 No special protection required.

Methods and materials for containment and cleaning up

- 1 Since the product is a solid matter, there will be usually no leakage.

Section 7 Handling and storage

Precautions for safe handling

- 1 Put on appropriate personal protective equipment (see section 8).
- 2 Avoid contact eyes. Avoid breathing dust.
- 3 Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
- 4 Workers should wash hands and face before eating, drinking and smoking.
- 5 Provide suitable exhaust equipment. Operate in a well-ventilated place.
- 6 Normal measures for preventive fire protection. Keep away from heat/open flames/hot surfaces.
- 7 Observe good housekeeping procedures and hygiene practices.
- 8 Handling carefully to prevent damage the packaging and container.
- 9 Wash thoroughly after handling.



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10	Avoid formation of dust and aerosols.
11	In the case of heavy product, take precautions to prevent the possibility of falling.

Conditions for safe storage, including any incompatibilities

1	Store in accordance with local regulations. Stored in a dry, cool and well-ventilated area.
2	Keep container tightly closed and sealed until ready for use.
3	Avoid direct sunlight. Keep away from open flames and high temperatures, away from incompatible materials (see section 10), food and feed.
4	Keep out of reach of children and pets.

Section 8 Exposure controls/personal protection

Control parameters

Occupational Exposure limit values

Components CAS No.	Country/region	Occupational exposure limits (8h)		Occupational exposure limits (Short time)	
		ppm	mg/m ³	ppm	mg/m ³
Ethane-1,2-diol 107-21-1	Korea	-	-	40	100
	New Zealand	-	-	50	127
	Ireland	20	52	40	104
	Germany (AGS)	10	26	20	52
	Denmark	10	26	20	52
	Australia	20	52	40	104
	England	20	52(steam)	40	104
Diethylene glycol 111-46-6	Sweden	10	45	20	90
	New Zealand	23	101	-	-
	Ireland	23	100	-	-
	Germany (AGS)	10	44	40	176
	Denmark	2.5	11	5	22
	Australia	23	100	-	-



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Carbon black 1333-86-4	USA-OSHA	-	3.5	-	-
	Korea	-	3.5	-	-
	Ireland	-	3.5	-	7
	Germany (AGS)	-	3.5	-	-
	Denmark	-	3.5	-	10
	Australia	-	3	-	-
	England	-	3.5	-	7
Amorphous silicon dioxide 7631-86-9	Korea	-	10	-	-
	New Zealand	-	1	-	-
	Ireland	-	6	-	-
	Germany (AGS)	-	4	-	-
	Denmark	-	2	-	4
	Australia	-	2	-	-

Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

General requirements:	
Respiratory protection:	Wear a mask.
Eye protection:	Wear safety glasses when there is a potential for eye contact.
Skin and body protection:	Wear suitable protective clothing and boots if necessary.
Hands protection:	Wear protective gloves.

Section 9

Information on basic physical and chemical properties



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Information on basic physical and chemical properties

Appearance and character:	Solid
Color:	Black-white, gray-white, black-gold, white-gold
Odor:	Odorless
Melting point/freezing point (°C):	No data/Not applicable
Initial boiling point and boiling range (°C):	No data/Not applicable
Flash point (Close cup, °C):	No data/Not applicable
Evaporation rate:	No data/Not applicable
Steam pressure (20°C):	No data/Not applicable
Relative density (water=1):	No data/Not applicable
Partition coefficient: n-octanol/water:	No data/Not applicable
Decomposition temperature (°C):	No data/Not applicable
Auto ignition temperature (°C):	No data/Not applicable
pH value:	No data/Not applicable
Explosion limit [% (v/v)]:	Non explosive
Relative vapor density (air=1):	No data/Not applicable
Solubility:	Insoluble in water
Flammability (solid, gas):	Non flammable
Oxidizing properties:	The substance does not belong to oxidizing substances

Other information

Surface scratch hardness:	Mohs scale hardness 5
Chemical Resistance:	C ₄
Compressive Strength (MPa):	Dry: 234 Wet: 234



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Absorption by Weight and Density	Absorption: 0.04% Density: 2224 kg/m ³
Modulus of Rupture (MPa):	Dry: 61.5 Wet: 72.9
Load test:	No cracks or chips
Stain Resistance Test:	The specimen shall be washed with tap water and cheesecloth or soft bristle brush using 20 scrub cycles with normal hand pressure and dried by blotting. A stain shall be defined as a change in surface texture or a change in color. Specimens not staining at this point shall have a rating of 1-non-staining
Cigarette Test:	No visible damage
Heated Pan Test:	No effect
Fastness to Color Test:	Pass

Section 10

Stability and reactivity

Stability and reactivity

Reactivity:	Stable under recommended storage and handling conditions.
Chemical stability:	The product is chemically stable.
Possibility of hazardous reactions:	May react with strong bases. May react with hydrofluoric acid, HF gas.
Conditions to avoid:	No data.
Incompatible materials:	Strong bases, hydrofluoric acid, HF gas.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11

Toxicological information

Acute toxicity

Component(s)	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation)
Diethylene glycol	111-46-6	Rat: 12565mg/kg Mouse: 23700mg/kg Rabbit: 4400mg/kg	Rabbit: 11890mg/kg	No data



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Component(s)	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation)
Carbon black	1333-86-4	Rat: >15400mg/kg	No data	No data
Di-tert-butyl peroxide	110-05-4	Rat: >25000mg/kg Mouse: 4572mg/kg	No data	Rat: >4100 ppm/4H Mouse: >4103 ppm/4H

Skin corrosion/irritation:	According to the existing data, the product is not classified.
Eye corrosion/irritation:	According to the existing data, the product is not classified.
Respiratory sensitization:	These products are not known to cause human respiratory sensitization.
Skin sensitization:	These products are not known to cause skin sensitization.
Germ cell mutagenicity:	According to the existing data, the product is not classified.
Carcinogenicity:	No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity:	According to the existing data, the product is not classified.
Specific target organ toxicity - single exposure:	According to the existing data, the product is not classified.
Specific target organ toxicity - repeated exposure:	According to the existing data, the product is not classified.
Aspiration hazard:	According to the existing data, the product is not classified.
Additional reproductive toxicity hazards:	According to the existing data, the product is not classified.

Section 12 Ecological information

Aquatic toxicity

Acute/Chronic aquatic toxicity:	This product contains no hazardous or toxic substances, and presents a negligible impact on the environment based on its reported use pattern.
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Persistence and degradability

	No data.
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Bioaccumulative potential

	The potential for bioaccumulation of this material in aquatic organisms is low.
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Mobility in soil

No data.

Other adverse effects

- Under environmental conditions, it will not have a detrimental effect on plants, animals or microorganisms. But do not allow material to be released to the environment without proper governmental permits.

Section 13 Disposal considerations

Waste disposal

Residual waste:

Before disposal should refer to the relevant national and local laws and regulation.
The generation of waste should be avoided or minimized wherever possible. Recommended crushing recycling or landfill or transfer to a suitable container and arrange for collection by specialized disposal company if recycling is not feasible.

Contaminated packaging:

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations:

Dispose of container and unused contents in accordance with national and local relevant regulations laws.

Section 14 Transport information

Transport rules

According to IATA DGR 67th Edition for transportation, IMO International Maritime Dangerous Goods Code (Amendment 42-24), European Agreement Concerning the International Carriage of Dangerous Goods by Road. The products are not subject to IATA DGR, IMDG and ADR/RID.

Label(s) required

Label(s): None



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Road transport (UN-ADR)

UN number:	Not regulated
UN proper shipping name:	Not regulated
Transport hazard class(es)-Main:	Not regulated
Transport hazard class(es)-Sub risk:	None
Packaging group:	Not regulated
Special provisions for transportation:	None
Hazard code:	None

Air transport (ICAO-IATA/DGR)

UN number:	Not regulated
UN proper shipping name:	Not regulated
Transport hazard class(es)-Main:	Not regulated
Transport hazard class(es)-Sub risk:	None
Packaging group:	Not regulated
Special provisions for transportation:	None
ERG code:	None

Sea transport (IMDG-CODE)

UN number:	Not regulated
UN proper shipping name:	Not regulated
Transport hazard class(es)-Main:	Not regulated
Transport hazard class(es)-Sub risk:	None
Packaging group:	Not regulated



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Special provisions for transportation:	None
Marine pollutants (Yes/No):	No
EmS No.:	None

Section 15

Regulatory information

Regulatory information:

Reference to the local, national, US, EU, CA and international regulations

CAS No.	TSCA	EINECS	DSL	IECSC	NZIoC	PICCS	KECI	AIIC
7631-86-9	✓	✓	✓	✓	✓	✓	✓	✓
107-21-1	✓	✓	✓	✓	✓	✓	✓	✓
111-46-6	✓	✓	✓	✓	✓	✓	✓	✓
26264-14-2	✓	✓	✓	✓	✓	✓	✓	✓
3006-82-4	✓	✓	✓	✓	✓	✓	✓	✓
110-05-4	✓	✓	✓	✓	✓	✓	✓	✓
2530-85-0	✓	✓	✓	✓	✓	✓	✓	✓
1333-86-4	✓	✓	✓	✓	✓	✓	✓	✓
12227-89-3	✓	✓	✓	✓	✓	✓	✓	✓
1317-80-2	✓	✓	✓	✓	✓	✓	✓	✓
20344-49-4	✓	✓	✓	✓	✓	✓	✓	✓

TSCA:	United States Toxic Substances Control Act Inventory
EINECS:	European Inventory of Existing Commercial Chemical Substances
DSL:	Canadian Domestic Substances List
IECSC:	China Inventory of Existing Chemical Substances
PICCS:	Philippines Inventory of Chemicals and Chemical Substances
NZIoC:	New Zealand Inventory of Chemicals
KECI:	Korea Existing and Evaluated Chemical Substances



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AIIIC: List of existing chemical substances in Australia

★Note: “✓” Indicates that the substance included in the regulations
“✗” That no data or included in the regulations

Section 16

Other information

Abbreviations or phrases

ACGIH:	American Conference of Governmental Industrial Hygienists
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service
CLP:	Classification, labeling and packaging
EC:	Council of Europe
ECHA:	European Chemicals Agency
EINECS:	European Inventory of Existing commercial Chemical Substances
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
RID:	Regulation for rail International transportation of Dangerous goods
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Dangerous Goods Code
IC ₅₀ :	Inhibitory Concern Triton 50%
LC ₅₀ :	Lethal Concentration 50%
LD ₅₀ :	Median Lethal Dose 50%
MAPROL:	International Convention for the Prevention of Pollution from Ships
REACH:	REGULATION concerning the Registration, Evaluation, Authorization and Restriction of Chemicals
STEL:	Short Term Exposure Limit
TWA:	Time Weighted Average
MAC:	Maximum Allowable Concentration
OSHA:	Occupational Safety and Health Administration
NIOSH:	National Institute for Occupational Safety and Health



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TLV:	Threshold Limit Value
TLV-TWA:	Threshold Limit Value-Time Weighted Average
TLV- STEL:	Threshold Limit Value-Short term Exposure Limit
PC-TWA:	Permissible Concentration-Time Weighted Average
PC-STEL:	Permissible Concentration-Short Term Exposure Limit
PEL:	Permissible Exposure Limit
OELs:	Occupational Exposure Limits

Reference

1	IARC
2	OECD: The Global Portal to Information on Chemical Substances
3	U.S. Department of Transportation: ERG
4	Germany GESTIS-database on hazard substance
5	CAMEO Chemicals
6	NLM: ChemIDplus
7	EPA: Integrated Risk Information System
8	IPCS: The International Chemical Safety Cards (ICSC)

Disclaimer

1	The above information is believed to be correct but we can not guarantee the absolute universality and accuracy and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.
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