



QUARTZ SURFACES MSDS



Material Safety Data Sheet

1 Identification

Product identifier

Trade name: Quartz Surfaces

Recommended use of the chemical and restrictions on use:

Application of the substance / the preparation: Benchtops, Floorings, etc

Details of the supplier of the safety data sheet

Manufacturer/Supplier: Linnstone

Full address: Unit 2, 113 Belmont Ave, Belmont WA 6104

Email: info@linnstone.com

Further information obtainable from: Linnstone

Emergency telephone number:

Tel: 1300 366 979

2 Hazard(s) identification

Classification of the substance or mixture

Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 1 H372 Causes damage to the hearing organs through prolonged or repeated exposure.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification system:

The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.

Label elements**Labelling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)****Hazard pictograms**

GHS07



GHS08

Signal word Danger**Hazard-determining components of labeling:**

Cristobalite

styrene

Tert-butyl 2-ethylperoxyhexanoate

Hazard statements

H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to the hearing organs through prolonged or repeated exposure.

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P314	Get medical advice/attention if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified (HNOC) No further relevant information available.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

Mixture of the substances listed below with nonhazardous additions.

For the wording of the listed hazard statements refer to Section 16.

Composition:		
14808-60-7	Quartz (SiO ₂)	58%
14464-46-1	Cristobalite ⚠ Carc. 1A, H350	20%
68476-25-5	Feldspar-group minerals ⚠ Eye Irrit. 2A, H319; STOT SE 3, H335	10%
100-42-5	styrene ⚠ Flam. Liq. 3, H226; ⚠ Carc. 2, H351; Repr. 2, H361; STOT RE 1, H372; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	7%
60676-86-0	Silica, vitreous	2%
13463-67-7	titanium dioxide	1%
2530-85-0	3-trimethoxysilylpropyl methacrylate Flam. Liq. 4, H227	1%
3006-82-4	Tert-butyl 2-ethylperoxyhexanoate ⚠ Self-react. C, H242; ⚠ Skin Sens. 1, H317	1%

4 First-aid measures

Description of first aid measures

General description:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture:

During heating or in case of fire poisonous gases are produced.

Special protective equipment and precautions for firefighters

Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

7 Handling and storage

Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

For the general occupational hygienic measures refer to Section 8.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

8 Exposure controls/personal protection

Components with limit values that require monitoring at the workplace:

14808-60-7 Quartz (SiO ₂) (58%)	
PEL (USA)	Long-term value: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2
REL (USA)	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.025* mg/m ³ *as respirable fraction
14464-46-1 Cristobalite (20%)	
PEL (USA)	Long-term value: 0.05* mg/m ³ *resp. dust;½ value from resp.dust formulae Quartz
REL (USA)	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.025* mg/m ³ *as respirable fraction
100-42-5 styrene (7%)	
PEL (USA)	Long-term value: 100 ppm Ceiling limit value: 200; 600* ppm *5-min peak in any 3 hrs
REL (USA)	Short-term value: 425 mg/m ³ , 100 ppm Long-term value: 215 mg/m ³ , 50 ppm
TLV (USA)	Short-term value: 20 ppm Long-term value: 10 ppm BEI, OTO

60676-86-0 Silica, vitreous (2%)	
PEL (USA)	20mppcf or 80mg/m ³ /%SiO ₂
TLV (USA)	TLV withdrawn
13463-67-7 titanium dioxide (1%)	
PEL (USA)	Long-term value: 15* mg/m ³ *total dust
REL (USA)	See Pocket Guide App. A
TLV (USA)	Long-term value: 10 mg/m ³

Regulatory information

PEL (USA): Guide to Occupational Exposure Values (OSHA PELs)

REL (USA): Guide to Occupational Exposure Values (NIOSH RELs)

TLV (USA): Guide to Occupational Exposure Values (ACGIH)

Ingredients with biological limit values:

100-42-5 styrene	
BEI (USA)	<p>400 mg/g creatinine Medium: urine Time: end of shift Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific)</p> <p>0.2 mg/L Medium: venous blood Time: end of shift Parameter: Styrene (semi-quantitative)</p>

Additional information: The lists that were valid during the creation were used as basis.

Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.

Appropriate engineering controls:

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

See Section 7 for information about design of technical facilities.

Personal protective equipment:

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

<p>General Information</p> <p>Appearance:</p> <p>Form:</p> <p>Colour:</p> <p>Odor:</p> <p>Odor threshold:</p>	<p>Solid</p> <p>According to product specification</p> <p>Odourless</p> <p>Not available</p>
<p>pH-value:</p>	<p>Not available</p>
<p>Change in condition</p> <p>Melting point/Freezing point:</p> <p>Initial boiling point and boiling range:</p>	<p>Not available</p> <p>Not available</p>
<p>Flash point:</p>	<p>Not available</p>
<p>Flammability (solid, gaseous):</p>	<p>Not available</p>
<p>Auto-Ignition temperature:</p>	<p>Not available</p>
<p>Decomposition temperature:</p>	<p>Not available</p>
<p>Explosion limits:</p> <p>Lower:</p> <p>Upper:</p>	<p>Not available</p> <p>Not available</p>
<p>Vapor pressure:</p>	<p>Not available</p>
<p>Density:</p> <p>Relative density:</p> <p>Vapor density:</p> <p>Evaporation rate:</p>	<p>Not available</p> <p>Not available</p> <p>Not available</p> <p>Not available</p>
<p>Solubility in / Miscibility with Water:</p>	<p>Not available</p>
<p>Partition coefficient (n-octanol/water):</p>	<p>Not available</p>
<p>Viscosity:</p> <p>Dynamic:</p> <p>Kinematic:</p>	<p>Not available</p> <p>Not available</p>
<p>Other information</p>	<p>No further relevant information available.</p>

10 Stability and reactivity

Reactivity: Data not available

Chemical stability: Data not available

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification:		
100-42-5 styrene		
Oral	LD50	5,000 mg/kg (rat)
13463-67-7 titanium dioxide		
Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (rat)

Skin corrosion/irritation: Irritating effect possible.

Serious eye damage/irritation: Irritating effect.

Respiratory or skin sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

Carcinogenic categories

IARC (International Agency for Research on Cancer)		
14808-60-7	Quartz (SiO ₂)	1
114464-46-1	Cristobalite	1
100-42-5	styrene	2B
60676-86-0	Silica, vitreous	3
13463-67-7	titanium dioxide	2B
NTP (National Toxicology Program)		
14808-60-7	Quartz (SiO ₂)	K
14464-46-1	Cristobalite	K
100-42-5	styrene	R
OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Other adverse effects: No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

UN-Number DOT, IMDG, IATA	Not applicable
UN proper shipping name DOT, IMDG, IATA	Not applicable
Transport hazard class(es) DOT, IMDG, IATA Class Label	Not applicable
Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
UN "Model Regulation":	Void

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

Section 355 (extremely hazardous substances):	None of the ingredients is listed.
Section 313 (Specific toxic chemical listings):	100-42-5 styrene
TSCA (Toxic Substances Control Act):	All components have the value ACTIVE.

Proposition 65

Chemicals known to cause cancer:		
14808-60-7 14464-46-1 100-42-5 13463-67-7	Quartz (SiO ₂) Cristobalite styrene titanium dioxide	
Chemicals known to cause reproductive toxicity for females:		None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males:		None of the ingredients is listed.
Chemicals known to cause developmental toxicity:		None of the ingredients is listed.
New Jersey Right-to-Know List:		
14808-60-7 14464-46-1 100-42-5 60676-86-0 13463-67-7	Quartz (SiO ₂) Cristobalite styrene Silica, vitreous titanium dioxide	
New Jersey Special Hazardous Substance List:		
14808-60-7 14464-46-1 100-42-5	Quartz (SiO ₂) Cristobalite styrene	CA CA CA, F3, R2
Pennsylvania Right-to-Know List:		
14808-60-7 14464-46-1 100-42-5 13463-67-7	Quartz (SiO ₂) Cristobalite styrene titanium dioxide	
Pennsylvania Special Hazardous Substance List:		
100-42-5	styrene	E

Carcinogenicity categories

EPA (Environmental Protection Agency)		None of the ingredients is listed.
TLV (Threshold Limit Value established by ACGIH)		
14808-60-7	Quartz (SiO ₂)	A2
14464-46-1	Cristobalite	A2
100-42-5	styrene	A4
13463-67-7	titanium dioxide	A4
NIOSH-Ca (National Institute for Occupational Safety and Health)		
14808-60-7	Quartz (SiO ₂)	
14464-46-1	Cristobalite	
13463-67-7	titanium dioxide	

16 Other information

Relevant hazard statements

H226 Flammable liquid and vapor.

H227 Combustible liquid.

H242 Heating may cause a fire.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H350 May cause cancer.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to the hearing organs through prolonged or repeated exposure.

DISCLAIMER OF LIABILITY

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Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
Flam. Liq. 3: Flammable liquids – Category 3
Flam. Liq. 4: Flammable liquids – Category 4
Self-react. C: Self-reactive substances and mixtures – Type C/D
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 1A: Carcinogenicity – Category 1A
Carc. 2: Carcinogenicity – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1