



Zulite Series  
Low Silica  
Surfaces  
MSDS

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## Material Safety Data Sheet

### 1 Identification

#### Product identifier

Trade name: Zulite Series Low Silica Surfaces

#### Recommended use of the chemical and restrictions on use:

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

#### Details of the supplier of the safety data sheet

Manufacturer/Supplier: Linnstone

Full address: 955 Sivert Drive, Wood Dale, IL 60191

Phone number: +1-630-755-5466

Email: info@linnstone.com

Further information obtainable from: Linnstone

#### Emergency telephone number:

Poison Center

Tel: +1 800 222 1222

### 2 Hazard(s) identification

#### Classification of the substance or mixture



GHS08 Health hazard

Carcinogenicity 1A

H350 May cause cancer.

Toxic to Reproduction 1B

H360 May damage fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure 1 H372 Causes damage to the hearing organs through prolonged or repeated exposure.



GHS07

Eye Irritation 2A

H319 Causes serious eye irritation.

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation.

#### 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

Resin

Feldspar-group minerals

Tert-butyl 2-ethylperoxyhexanoate

**Hazard statements**

H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H335	May cause respiratory irritation.
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.
P271	Use only outdoors or in a well-ventilated area.
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.
P302+P352	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P312	Call a poison center/ doctor if you feel unwell.
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.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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:		
CAS: 60676-86-0	Glass & Mirrors	40-60%
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	0-30%
CAS: 14464-46-1	Cristobalite ⚠ Carcinogenicity 1A, H350	0-30%
CAS: 68476-25-5	Feldspar-group minerals ⚠ Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	0-20%
CAS: 100-42-5	Resin ⚠ Flammable Liquids 3, H226; ⚠ Carcinogenicity 1B, H350; Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 1 ⚠ H372; Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315; Eye Irritation 2A, H319	0-15%

CAS: 13463-67-7	Titanium dioxide	1%
CAS: 2530-85-0	3-trimethoxysilylpropyl methacrylate Flam. Liq. 4, H227	1%
CAS: 3006-82-4	Tert-butyl 2-ethylperoxyhexanoate ⚠ Organic Peroxides - Type C, H242; ⚠ Toxic to Reproduction 1B, H360; ⚠ Sensitization - Skin 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:

CO<sub>2</sub>, 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 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:** Store away from foodstuffs.

**Further information about storage conditions:** Keep receptacle tightly sealed.

**8 Exposure controls/personal protection**

**Components with limit values that require monitoring at the workplace:**

CAS: 60676-86-0 Glass & Mirrors (40-60%)		
PEL (USA)	20mppcf or 80mg/ m <sup>3</sup> / %SiO <sub>2</sub>	
TLV (USA)	TLV withdrawn	
CAS: 14808-60-7 Quartz (SiO <sub>2</sub> ) (0-30%)		
PEL (USA)	Long-term value: 0.05* mg/ m <sup>3</sup>	*resp. dust; 30mg/ m <sup>3</sup> /%SiO <sub>2</sub> +2
REL (USA)	Long-term value: 0.05* mg/ m <sup>3</sup>	*respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.025* mg/ m <sup>3</sup>	*respirable particulate matter, A2
CAS: 14464-46-1 Cristobalite (0-30%)		
PEL (USA)	Long-term value: 0.05* mg/ m <sup>3</sup>	*resp. dust; ½ value from resp.dust formulae Quartz
REL (USA)	Long-term value: 0.05* mg/ m <sup>3</sup>	*respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.025* mg/ m <sup>3</sup>	*respirable particulate matter, A2

CAS: 100-42-5 Resin (0-15%)	
PEL (USA) REL (USA) TLV (USA)	Long-term value: 100 ppm      Ceiling limit value: 200; 600* ppm      *5- min peak in any 3 hrs Short-term value: 425 mg/ m <sup>3</sup> , 100 ppm      Long- term value: 215 mg/ m <sup>3</sup> , 50 ppm Short-term value: 20 ppm      Long-term value: 10 ppm      BEI, OTO, A3
CAS: 13463-67-7 Titanium dioxide (1%)	
PEL (USA) REL (USA) TLV (USA)	Long-term value: 15* mg/ m <sup>3</sup> *total dust See Pocket Guide App. A Long-term value: 0.2* 2.5** mg/ m <sup>3</sup> resp. fraction,*nanoscale,**finescale, A3.

**Regulatory information**

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

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

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

**Ingredients with biological limit values:**

CAS: 100-42-5 Resin	
BEI (USA)	400 mg/ g creatinine Medium: urine Time: end of shift Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific)  40µg/ L Medium: urine Time: end of shift Parameter: Resin

**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.

**Individual protection measures, such as 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.

**Hand protection:**

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/ face protection:**

Tightly sealed goggles



## 9 Physical and chemical properties

<p>General Information</p> <p>Appearance:</p> <p>Form:</p> <p>Color:</p> <p>Odor:</p> <p>Odor threshold:</p>	<p>Solid</p> <p>According to product specification</p> <p>Odor less</p> <p>Not available</p>
pH-value:	Not available
<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>
Flash point:	Not available
Flammability	Not available
Auto-Ignition temperature:	Not available
Decomposition temperature:	Not available
<p>Lower and upper explosion limit</p> <p>Lower:</p> <p>Upper:</p>	<p>Not available</p> <p>Not available</p>
Vapor pressure:	Not available
<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>
Solubility in / Miscibility with Water:	Not available
Partition coefficient (n-octanol/water):	Not available
<p>Viscosity:</p> <p>Dynamic:</p> <p>Kinematic:</p>	<p>Not available</p> <p>Not available</p>
Other information	No further relevant information available.

## 10 Stability and reactivity

**Reactivity:** No further relevant information available.

**Chemical stability:** No further relevant information 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:		
CAS: 100-42-5 Resin		
Oral	LD50	5,000 mg/kg (rat)
CAS: 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:

Toxic

Harmful

Irritant

## Carcinogenic categories

IARC (International Agency for Research on Cancer)		
60676-86-0	Glass & Mirrors	3
14464-46-1	Cristobalite	1
14808-60-7	Quartz (SiO <sub>2</sub> )	1
100-42-5	Resin	2A
13463-67-7	Titanium dioxide	2B
NTP (National Toxicology Program)		
14464-46-1	Cristobalite	K
14808-60-7	Quartz (SiO <sub>2</sub> )	K
100-42-5	Resin	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
Transport/ Additional information:	Not applicable
UN "Model Regulation":	Not applicable

## 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 Resin
TSCA (Toxic Substances Control Act):	All components have the value ACTIVE.

**Proposition 65**

Chemicals known to cause cancer:		
14464-46-1 14808-60-7 100-42-5 13463-67-7	Cristobalite Quartz (SiO <sub>2</sub> ) Resin 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:		
60676-86-0 14464-46-1 14808-60-7 100-42-5 13463-67-7	Glass & Mirrors Cristobalite Quartz (SiO <sub>2</sub> ) Resin Titanium dioxide	
New Jersey Special Hazardous Substance List:		
14464-46-1 14808-60-7 100-42-5	Cristobalite Quartz (SiO <sub>2</sub> ) Resin	CA CA CA, F3, R2
Pennsylvania Right-to-Know List:		
14464-46-1 14808-60-7 100-42-5 13463-67-7	Cristobalite Quartz (SiO <sub>2</sub> ) Resin Titanium dioxide	
Pennsylvania Special Hazardous Substance List:		
100-42-5	Resin	E

**Carcinogen categories**

EPA (Environmental Protection Agency)		None of the ingredients is listed.
TLV (Threshold Limit Value)		
14464-46-1	Cristobalite	A2
14808-60-7	Quartz (SiO <sub>2</sub> )	A2
100-42-5	Resin	A4
13463-67-7	Titanium dioxide	A4
NIOSH-Ca (National Institute for Occupational Safety and Health)		
14464-46-1	Cristobalite	
14808-60-7	Quartz (SiO <sub>2</sub> )	
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.
- H360 May damage fertility or the unborn child.
- H361 Suspected of damaging fertility or the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.

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### **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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

Flammable Liquids 3: Flammable liquids – Category 3

Flam. Liq. 4: Flammable liquids – Category 4

Organic Peroxides - Type C: Organic peroxides – Type C/ D

Acute Toxicity - Inhalation 4: Acute toxicity – Category 4 Skin

Irritation 2: Skin corrosion/ irritation – Category 2 Eye

Irritation 2A: Serious eye damage/ eye irritation – Category 2A

Sensitization - Skin 1: Skin sensitisation – Category 1

Carcinogenicity 1A: Carcinogenicity – Category 1A

Carcinogenicity 1B: Carcinogenicity – Category 1B

Toxic to Reproduction 1B: Reproductive toxicity – Category 1B

Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific

Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 Specific Target

Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1