

Material Safety Data Sheet

Silic8 Silguard

Revision date: November 2019

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Mixture name: Silic8 Silguard
Trade name: Silguard, Silic8®, Silic8TM

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

Use of the substance:

Intended for use as water repellent in the building material industry as described in the Technical Data Sheet.

1.3 Details of the supplier of the safety data sheet

Name: Lime Green Products Ltd.
Address: Coates Kiln, Stretton Road
Much Wenlock
Shropshire
SY6 7EB
Phone N°: +44(0)1952728611
E-mail of competent person(s): enquire@lime-green.co.uk

1.4 Emergency telephone number

European Emergency N°: 112
National centre for Prevention & Treatment of Intoxications N°: National Chemicals Emergency Centre (NCEC) +44 (0) 870 190 6621
Emergency telephone at the company: +44(0)1952728611
Available outside office hours: No

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture

Classification under CLP: Eye Irrit. 2: H319

2.2 Label elements

Signal word: Warning

Hazard pictogram: GHS07

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Hazard statements:

H315: Causes skin irritation
H319: Causes serious eye irritation

Precautionary statements:

P102: Keep out of reach of children
P262: Do not get in eyes, on skin or on clothing
P280: Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352: IF ON SKIN: Remove all contaminated clothing, Wash with plenty of water/shower
P337+P313: If eye irritation persists: Get medical advice/attention.
P501: Dispose of contents/container in accordance with local, regional, national and international regulation – use a registered hazardous waste carrier/licence holder, and/or contact the manufacturer.

2.3 Other hazards

The substance does not meet the criteria for PBT or vPvB substance.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Hazardous ingredients:

EC No	CAS	REACH registration no.	Name	% (Weight)	CLP Classification
	9043-30-5	02-2119492447-27-0000	Polymer	1-5%	Eye Dam. 1: H318; Acute Tox. 4: H302
215-199-1	1312-76-1	01-2119456888-17-0002	Potassium Silicate	10 -20%	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335

SECTION 4. FIRST AID MEASURES

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4.1 Description of first aid measures

General advice

No known delayed effects. Consult a physician showing this SDS.

Following inhalation

Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

Following skin contact

Wash affected area immediately with plenty of water. Remove contaminated clothing. If necessary, seek medical advice.

Following eye contact

Rinse eyes immediately with plenty of water for at least 15 minutes and seek medical advice.

Following ingestion

Clean mouth with water and drink afterwards plenty of water. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Follow the advice given in section 4.1. Show this SDS to a doctor.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use a dry powder, foam or CO₂ fire extinguisher to extinguish the surrounding fire. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for fire fighters

Do not breath smoke, fumes and vapours.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Refer to section 8 for PPE.

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6.2 Environmental precautions

Contain spillage. Avoid uncontrolled spills to watercourses and drains (pH increase). Any large spillage into watercourses must be alerted to the Environment Agency or other regulatory body.

Don't allow product to enter soil, sewage system or any ground water course. Adhere to local governmental rules and regulations. In the case of ground contamination inform the relevant authorities immediately.

6.3 Methods and material for containment and cleaning up

Plug drainage courses (blocking risk due to polymer precipitation).

Absorb with liquid-binding material (Sand, diatomite, acid binders, universal binders, sawdust).

Flush residues with plenty of water. Dispose of the residue materials according to the regulations. Thoroughly clear contamination.

6.4 Reference to other sections

Section 8 and 13 of this SDS.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Keep receptacles tightly sealed. Ensure good ventilation/extraction in the workplace. Do not allow contact with metals or strong acids.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool ventilated conditions in original packaging away from direct sunlight, between 5 and 25°C. Do not store in contact with metal or glass containers or with acids. The product is not flammable or explosive.

7.3 Specific end use(s)

No data available

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Workplace limits: no data available.

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate ventilation.

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Eye protection

EN166 eye protective goggles. Eyewash facilities should be available.

Skin protection

Alkaline resistance gloves and working clothes fully covering skin, full length trousers, long sleeved overalls.

Respiratory protection

Local ventilation is recommended. Use suitable respiratory protective device when vapour or mist is formed.

Environmental exposure controls

Avoid releasing to the environment. Do not dispose of into water courses or sewer system.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	White or off-white liquid material of varying viscosity
Odour:	No perceptible odour
pH @ 20°C	11.2
Freezing Point	<0°C
Boiling Point	>100°C
Flash Point	>100°C
Evaporation rate	No data available
Flammability	Non-combustible
Explosive Limits	No explosion hazard present
Vapour Pressure	No data available
Vapour density	No data available
Relative density	1.2 g/cm ³ @ 20°C
Solubility	Fully miscible
Partition Coef	No data available
Auto ignition temp	No data available
Decomposition temp	>100°C
Viscosity	<100mPas

9.2 Other information

Not available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended conditions

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10.2 Chemical stability

Stable under recommended conditions .

10.3 Possibility of hazardous reactions

Reaction with light alloys to form hydrogen. Exothermic reaction with acids.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Strong oxidising agents, light alloys, dolomitic limestone.

10.6 Hazardous decomposition products

Decomposes by reaction with strong acids. Emits toxic fumes

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Ingredient	Method	Species	Effective Dose	Results
OXOALKOHOLETHOXYLATE	LD50	Rat	Oral	2000 mg/kg
POTASSIUM SILICATE	LD50	Rat	Oral	> 2000 mg/kg

Skin corrosion/irritation

Prolonged skin contact may cause irritation.

Serious eye damage/irritation

Can cause severe eye irritation

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:

Potassium silicate

EC 50 / 24h > 146 mg/l (Daphnia magna)

LC50 / 48 h > 146 mg/l (Golden orfe)

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12.2 Persistence and degradability

Readily eliminable from water. The organic part of this product is biodegradable.

12.3 Bio-accumulative potential

No potential for bioaccumulation.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance

12.6 Other adverse effects

Negligible ecotoxicity.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Disposal: in accordance with local and national legislation. Dispose of in a registered waste disposal facility. Do not dispose of in sewers.

Packaging Disposal: in a regulated landfill site, according to local and national legislation.

SECTION 14. TRANSPORT INFORMATION

Not classified for transport.

SECTION 15. REGULATORY INFORMATION

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

No specific regulations.

15.2 Chemical safety assessment

This product is a mixture. A Chemical Safety Assessment has not been carried out.

SECTION 16. OTHER INFORMATION

Data is based on our latest knowledge but do not constitute a guarantee for any specific product features and do not establish a legally valid contractual relationship. This SDS has been compiled and is solely intended for this product.

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Abbreviations

EC₅₀: median effective concentration
LC₅₀: median lethal concentration
LD₅₀: median lethal dose
NOEC: no observable effect concentration
WEL: workplace exposure limit
OEL: occupational exposure limit
PBT: persistent, bioaccumulative, toxic chemical
PNEC: predicted no-effect concentration
STEL: short-term exposure limit TWA:
time weighted average
vPvB: very persistent, very bioaccumulative chemical
EULA: European Lime Association

Disclaimer

This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.