

Issue Date (D/M/Y): 16/03/2021 Replaces (D/M/Y): 07/02/2017

SAFETY DATA SHEET Page 1 of 9

1. Identification

Product Identifier: Simseal Roadbond SL Self-Leveling High Performance Silicone Joint Sealant

Use: Silicone sealant
Manufacturer: CSL Silicones Inc.

144 Woodlawn Road West, Guelph, ON, N1H 1B5

Canada

Manufacturer Phone: North America: 1.800.265.2753 Worldwide: +1 519.836.9044

Emergency Phone: +1 519.836.9044 Monday - Friday, 8:00 A.M. - 5:00 P.M. Eastern Time Zone, UTC-05:00

Emergency Contact: Baz Mistry, Laboratory Manager; Farooq Ahmed, R&D Manager

2. Hazards Identification

Hazard Classification(s): Acute Toxicity – Category 4

Eye Irritation – Category 2 Skin Irritation – Category 3 Skin Sensitization – Category 1

Specific Target Organ Toxicity (STOT) Repeated Exposure - Category 2

Hazard Symbol(s):



Signal Word(s): Warning

Hazard Statements: H302 – Harmful if swallowed

H316 - Causes mild skin irritation.

H317 – May cause an allergic skin reaction.H319 – Causes serious eye irritation.

H373 – May cause damage to organs through prolonged or repeated exposure. Affected

organs: red blood cells. Route of exposure: oral.

Precautionary Statement(s):

Prevention: P264 – Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Response: P302+P352 – IF ON SKIN: Wash with plenty of water/shower.

P305+P351+P338 – IF IN EYES: Rinse cautiously for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P308+P313 – If exposed and concerned: get medical advice/attention.

Storage: P403+P233+P235 – Store in a well ventilated place. Keep container tightly closed. Keep

cool.

Disposal: P501 – Dispose of contents/containers to waste in accordance with local and national

regulations.

Other Hazards which do not result in GHS classification:

Not applicable.

Issue Date (D/M/Y): 16/03/2021 Replaces (D/M/Y): 07/02/2017

SAFETY DATA SHEET Page 2 of 9

3. Composition / Information on Ingredients

Chemical Name	Common or Other Name	CAS Number	Percent by Weight
Silicon dioxide	Amorphous silica	7631-86-9	5 – 10
2-butanone-O,O',O"- (phenylsilylidyne)trioxime	Phenyltrisbutanoneoxime silane	34036-80-1	1 – 5
N-[[3-dimethoxy(methyl)silyl] propyl]ethane-1,2-diamine	N-[3-(dimethoxymethylsilyl) propyl]ethylenediamine	3069-29-2	1 - 5
Other Ingredients			80.0 - 93.0

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentration applicable, are classification as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

4. First Aid Information

IF POISONING IS SUSPECTED, immediately contact the poison control center, doctor or nearest hospital. Have the product container, label or Safety Data Sheet with you when calling Simseal Inc., a poison control center or doctor, or going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Inhalation: The affected person should be moved to fresh air and made comfortable. Obtain medical

attention as a precaution.

Eye Contact: Do not attempt to remove solids or gums from the eye. Immediately flush the contaminated

 $eye(s) \ with \ lukewarm, \ gently \ flowing \ water \ for \ 20 \ minutes, \ holding \ the \ eyelids \ open. \ After \ 5 \ minutes, \ remove \ contact \ lenses \ if \ present \ and \ possible, \ and \ continue \ rinsing. \ Obtain \ medical$

attention immediately.

Skin Contact: Remove contaminated clothing. Wash gently and thoroughly with water and non-abrasive

soap. If symptoms persist, obtain medical attention. Contaminated clothing should be

laundered before re-use.

Ingestion: Neve give anything by mouth if victim is rapidly losing consciousness, is unconscious or

convulsing. DO NOT INDUCE VOMITING. Have victim rinse out mouth and drink 8 to 10 oz. (240 to 300 ml) of water to dilute the material in stomach. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Obtain medical attention immediately.

Most Important Symptoms/Effects:

At high vapour concentrations, curing by-product has a narcotic action with reversible effects.

Can cause moderate eye irritation and cause burns.

Mild dermal irritant; may cause transient reddening of the skin.

Ingestion may cause irritation and obstruction to gastro-intestinal tract.

Indication of Immediate Medical Attention and Special Treatment Needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

5. Fire Fighting Measures

Suitable Extinguishing Media:

Dry chemical, CO₂, water spray.

Unsuitable Extinguishing Media:

Do not use water jet as an extinguisher as this may spread the fire.

Specific Hazards:

Hazardous combustion products: carbon dioxide, carbon monoxide, formaldehyde, silicon dioxide, nitrogen oxide.

Issue Date (D/M/Y): 16/03/2021 Replaces (D/M/Y): 07/02/2017

SAFETY DATA SHEET Page 3 of 9

Special Protective Equipment and Precautions for Firefighters:

Sealant will burn if heated strongly. Water can be used to cool material below flash point. Sealant may emit noxious or toxic fumes. Self-Contained Breathing Apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. Full protective clothing should be worn at all times.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Make sure all personnel involved in the clean-up follow good industrial hygiene practices. A small spill can be handled routinely. Use adequate ventilation and equipment, and wear protective clothing as detailed in Section 8 Exposure Controls / Personal Protection and/or the product label.

Methods and Materials for Containment and Cleaning Up:

Restrict access to area of spill. Provide ventilation and protective clothing as required for the situation. Scrape-up sealant with cardboard or a rag and place in a disposal container.

Environmental Precautions:

Review local, regional and/or national regulations for disposal. Silicone wastes can often be incinerated in approved facilities. Solid waste can often be sent to designated landfill sites.

7. Handling and Storage

Precautions for Safe Handling:

KEEP OUT OF REACH OF CHILDREN. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Avoid breathing vapours. Wear full protective clothing and equipment as detailed in Section 8 Exposure Controls / Personal Protection. After work, rinse gloves and remove protective equipment, and wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, applying cosmetics or using the toilet. Wash contaminated clothing before re-use and separate from household laundry.

Conditions for Safe Storage, Including any Incompatibilities:

Store in cool dry conditions. Keep container tightly sealed when not in use. Protect product and contaminated materials from uncontrolled release into the environment, or from access by animals, birds or unauthorized people. Clean up spilled material immediately.

8. Exposure Controls / Personal Protection

Control Parameters:

Chemical Name	OSHA PEL	ACGIH TLV	Other	NTP/IARC/ OSHA Carcinogen	Canada TLV
Silicon dioxide*	10 mg/m³ inhalable; 3 mg/m³ respirable.	Not established.	Not established.	IARC Group 3	Ontario 10 mg/m³ TLV; Quebec 6 mg/m³ TLV
2-butanone-O,O',O"- (phenylsilylidyne)trioxime	Not established.	Not established.	Not established.	Not established.	Not established.
N-[[3-dimethoxy(methyl)silyl] propyl]ethane-1,2-diamine	Not established	Not established.	Not established.	Not established.	Not established.
Methyl Ethyl Ketoxime (MEKO)**	Not established.	Not established.	3 ppm TWA; 10 ppm STEL; 10 ppm workplace environmental exposure level (AIHA)	Not established.	Not established.

REL = recommended exposure limit; STEL = short-term exposure limit; TLV = threshold limit value; TWA = time weighted average

- * Component(s) are bound in the formulation and are not an exposure concern in the mixture or cured product.
- ** Methyl Ethyl Ketoxime (MEKO) is a curing-by-product that is released when the coating comes in contact with humid air. It is recommended to keep workplace exposure levels below 3 ppm.

SDS Number: 121

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Issue Date (D/M/Y): 16/03/2021 Replaces (D/M/Y): 07/02/2017

SAFETY DATA SHEET Page 4 of 9

Appropriate Engineering Controls:

If necessary, ensure work areas have adequate ventilation, containment, and procedures sufficient to maintain airborne levels below the TLV. Provide separate washing/shower and eating facilities.

Individual Protection Measures:

General: Avoid breathing dusts, vapours or aerosols. Avoid contact with eye, skin and clothing. Wash

thoroughly after handling, and before eating, drinking, applying cosmetics or handling

tobacco.

Eye/Face Protection: Safety glasses / chemical splash goggles.

Skin Protection: Impervious gloves, coveralls and/or aprons may be useful to prevent contamination of skin

and clothing. Choose gloves to protect hands against chemicals depending on the concentration specific to the place of work. Breakthrough time is not determined for the product. Change gloves often. We recommend clarifying the resistance of chemicals to protective gloves with the glove manufacturer. Wash hands before breaks and at the end of

the workday.

Respiratory Protection: General and local exhaust ventilation is recommended to maintain vapour exposures below

the recommended limits. Where concentrations are unknown or are above the recommended limits, a NIOSH/MSHA approved respirator with an organic vapour cartridge should be used. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplier respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying

respirators may not provide adequate protection.

9. Physical and Chemical Properties

Appearance: Smooth viscous liquid. Upper/Lower Flammability Limits: Not applicable.

Odour: Almost odourless. Vapour Pressure: Negligible @ 25 °C (77 °F)

Odour Threshold: Not available. Vapour Density: Not applicable.

pH: Not available. Relative Density: 1.11

Melting Point: Not applicable. Solubility(ies): Insoluble – water. Soluble in most organic

solvents.

Initial Boiling Point: Not available. Partition Coefficient (n-octanol/water): Not available.

Boiling Point Range: Not available.

Auto-Ignition Temperature: Not applicable.

Flash Point: 84 – 85 °C (183.2 – 185 °F), P.M.C.C.,

Decomposition Temperature: Not applicable.

ASTM D-93 Viscosity: Not available.

Evaporation Rate: Not applicable. VOC Content: 42.26 g/L (0.353 lb/gallon)

Flammability: Not applicable.

10. Stability and Reactivity

Freezing Point: Not available.

Reactivity:

Not reactive under normal use and storage conditions.

Stability

Stable under normal use and storage conditions.

Possibility of Hazardous Reactions:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Conditions to Avoid:

Humid or moist air conditions. Temperatures above the flash point.

Incompatible Materials:

Strong oxidizers. Concentrated acids or bases cause degradation of polymer. Boiling water may soften and weaken material.

Issue Date (D/M/Y): 16/03/2021 Replaces (D/M/Y): 07/02/2017

Chronic Effects

SAFETY DATA SHEET Page 5 of 9

Acute Effects

Hazardous Decomposition Products:

Combustion will produce silicon dioxide, carbon dioxide and carbon monoxide. A component of this product can generate formaldehyde at approximately 150 °C (300 °F) and above in the atmosphere containing oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential carcinogen.

11. Toxicological Information

Relevant routes of exposure:

Inhalation	9 .	entrations, curing by- iic action with reversible	•	vapour concentrations, curing by- has a narcotic action with reversible
Ingestion	May cause irritation a gastro-intestinal tract		Effects	unknown.
Skin Contact	Mild irritant; may cau of the skin.	se transient reddening	Effects	unknown.
Eye Contact	Moderate irritation.	Can cause burns.	Effects	unknown.
Other	No Data Available.		No Data	a Available.
cute Toxicity:				
Product	Silicon dioxide	2-butanone-O,O',C (phenylsilylidyne) trio:		N-[[3-dimethoxy (methyl)silyl] propyl] ethane-1,2-diamine
No data available.	LD50, rat, oral >5,110 mg/kg; LD50, rabbit, eye/skin >2,000 mg/kg; LC50, rat, inhalation > 4 mg/L.	LD50, rat, oral >2,000 n LD50, rat, derma >2,000 mg/kg;.		LD50 oral, rat >2,000 mg/kg (OECD 401); LD50 dermal, rabbit 15,520 mg/kg; LC50 inhalation, rat >4 mg/L 4h (OECD 403).
kin Irritation:				
Product	Silicon dioxide	2-butanone-O,O',C (phenylsilylidyne) trio:		N-[[3-dimethoxy (methyl)silyl] propyl] ethane-1,2-diamine
No data available.	Not irritating to skin (rabbit).	Prolonged skin contact r cause temporary irritatio cause an allergic skin re	n. May	Not irritating, rabbit (OECD 404). Based on the relevant data a clinically relevant skin irritation hazard is not expected.
ye Irritation:				
Product	Silicon dioxide	2-butanone-O,O',C (phenylsilylidyne) trio		N-[[3-dimethoxy (methyl)silyl] propyl] ethane-1,2-diamine
No data available.	Not irritating to eyes (rabbit)	Direct contact with eyes cause temporary irritatio	-	Serious damage to eyes, rabbit (OECD 405). After contact to the yes, irreversible effects must be expected.
utagenicity:				
Product	Silicon dioxide	2-butanone-O,O',C (phenylsilylidyne) trio:		N-[[3-dimethoxy (methyl)silyl] propyl] ethane-1,2-diamine
No data available.	There is no evidence that SAS induced mutations/ genotoxic either in vitro or in vivo in standard methods.	No data available to indiproduct or any compone present a greater than 0 are mutagenic or genoto	nts .1%	Negative, mutation assay (in vitro) bacterial cells (literature, OECD 471).
arcinogenicity:				
Product	Silicon dioxide	2-butanone-O,O',C (phenylsilylidyne) trio		N-[[3-dimethoxy (methyl)silyl] propyl] ethane-1,2-diamine
	IARC Group 3.	Suspected of causing ca		No data available.

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Issue Date (D/M/Y): 16/03/2021 Replaces (D/M/Y): 07/02/2017

SAFETY DATA SHEET Page 6 of 9

The ingredients of this product are not listed as carcinogens by the National Toxicology Program, and have not been evaluated by the International Agency for Research on Cancer (IARC) or the American Conference of Government Industrial Hygienists (ACGIH) (if not detailed above).

Reproductive Toxicity:

	Product	Silicon dioxide	2-butanone-O,O',O"- (phenylsilylidyne) trioxime	N-[[3-dimethoxy (methyl)silyl] propyl] ethane-1,2-diamine
	No data available.	The study on rats and mice gave no evidence of adverse effects on reproduction and development.	Suspected of damaging fertility.	No data available.
Te	ratogenicity:			
			2-butanone-O,O',O"-	N-[[3-dimethoxy (methyl)silyl]
	Product	Silicon dioxide	(phenylsilylidyne) trioxime	propyl] ethane-1,2-diamine

Specific Target Organ Toxicity (STOT) - Single Exposure:

Product	Silicon dioxide	2-butanone-O,O',O"- (phenylsilylidyne) trioxime	N-[[3-dimethoxy (methyl)silyl] propyl] ethane-1,2-diamine
No data available.	No clinical symptoms (rat,	No data available.	No data available.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Product	Silicon dioxide	2-butanone-O,O',O"- (phenylsilylidyne) trioxime	N-[[3-dimethoxy (methyl)silyl] propyl] ethane-1,2-diamine
No data available.	The inhalation of respirable particles of SAS produce a time and dose related inflammation response of the lung tissue in animal studies. All these effects were reversible following discontinuation of exposure.	May cause damage to organs (blood) through prolonged or repeated exposure.	No data available.

NOTE: Silicon dioxide is fully bound in the product formulation and is not an inhalation hazard in either the mixture or cured product.

Aspiration Hazard:

	Product	Silicon dioxide	(phenylsilylidyne) trioxime	propyl] ethane-1,2-diamine
	No data available.	No data available.	No data available.	No data available.
Ch	ronic Toxicity:			
	Product	Silicon dioxide	2-butanone-O,O',O"- (phenylsilylidyne) trioxime	N-[[3-dimethoxy (methyl)silyl] propyl] ethane-1,2-diamine
	No data available.	No data available.	No data available.	No data available.

NOTE: Silica dioxide is fully bound in the product formulation and is not an inhalation hazard in either the mixture or cured product.

NOTE: Curing by-product, methylethylketoxime (MEKO); male rats and mice exposed to MEKO throughout their lifetime developed liver tumours. Many commonly used chemicals cause liver tumours in rats and mice. The relevance to humans is unknown.

12. Ecological Information

Ecotoxicity - Acute:

Product	Silicon dioxide	2-butanone-O,O',O"- (phenylsilylidyne) trioxime	N-[[3-dimethoxy (methyl)silyl] propyl] ethane-1,2-diamine
No data available.	EC50, 48h, Daphnia magna >10,000 mg/L	Not classified as environmentally hazardous.	EC50, Daphnia magna, 48h, >100 mg/L. EC100, Daphnia magna, 48h, >100 mg/L.

Issue Date (D/M/Y): 16/03/2021 Replaces (D/M/Y): 07/02/2017

SAFETY DATA SHEET Page 7 of 9

Product	Silicon dioxide	2-butanone-O,O',O"- (phenylsilylidyne) trioxime	N-[[3-dimethoxy (methyl)silyl propyl] ethane-1,2-diamine
No data available.	No data available.	Not classified as environmentally hazardous.	No data available.
Persistence and Degradabil	ity:		
Product	Silicon dioxide	2-butanone-O,O',O"- (phenylsilylidyne) trioxime	N-[[3-dimethoxy (methyl)silyl propyl] ethane-1,2-diamine
No data available. Bioaccumulative Potential:	Log Kow 0.53 (estimated)	No data available.	Contact with water liberates methanol and silanol- and/or siloxanol-compounds. The product of hydrolysis (methanol) is readily biodegradable. Silicone content: biologically not degradable. Elimination by adsorption to activated sludge
Product	Silicon dioxide	2-butanone-O,O',O"- (phenylsilylidyne) trioxime	N-[[3-dimethoxy (methyl)silyl propyl] ethane-1,2-diamine
No data available.	BCF 3.162 (estimated).	No data available.	Bioaccumulation is not expected to occur.
Mobility in Soil:			
Product	Silicon dioxide	2-butanone-O,O',O"- (phenylsilylidyne) trioxime	N-[[3-dimethoxy (methyl)sily propyl] ethane-1,2-diamine
			·
No data available.	Koc 2.881 (estimated).	No data available.	No data available.
No data available.	Koc 2.881 (estimated).	No data available.	No data available.
	Koc 2.881 (estimated). Silicon dioxide	No data available. 2-butanone-O,O',O"- (phenylsilylidyne) trioxime	No data available. N-[[3-dimethoxy (methyl)sily propyl] ethane-1,2-diamine

13. Disposal Considerations

Disposal Methods:

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

14. Transport Information

Transport Information

Land Transport (TDG/ Sea Transport (AND/MDG) Air Transport (IATA-USDOT) DGR)

This material is not subject to transport regulations.

UN Number

UN Proper Shipping Name

Transport Hazard Class

Packing Group

Environmental Hazards

Special Precautions for User:

Not applicable.

Transport in Bulk According to Annex II of Marpol 73/78 and the IBC Code:

Not applicable.

Issue Date (D/M/Y): 16/03/2021 Replaces (D/M/Y): 07/02/2017

SAFETY DATA SHEET Page 8 of 9

15. Regulatory Information

Canadian Federal Regulations

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR), and the MSDS contains all the information required by the HPR.

DSL Inventory:

All chemical substances in this material are included in or exempted from the DSL.

US Federal Regulations

TSCA Inventory:

All chemical substances in this material are included in or exempted from the TSCA.

CERCLA Reportable Quantity:

None present on none present in regulated quantities.

SARA 304 Extremely Hazardous Substances Reportable Quantity:

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazard Categories:

Not applicable.

SARA 302 Extremely Hazardous Substance:

No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302

SARA 313 Emergency Release Notification:

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

US State Regulations

U.S. California Proposition 65

No ingredient regulated by CA Prop 65 present.

U.S. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

U.S. Massachusetts Right-to-Know Act- Substance List

Silicon dioxide, CAS 7631-86-9, 5 - 10 %

U.S. Pennsylvania Right-to-Know Act - Hazardous Substances

Silicon dioxide, CAS 7631-86-9, 5 - 10 %

U.S. Rhode Island Right-Know Act

No ingredient regulated by RI Right-to-Know Law present.

Other Regulations

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

The ingredients of this product are reported in the following inventories:

AICS (Australia) On or in compliance with the inventory. DSL (Canada) On or in compliance with the inventory. ENCS/ISHL (Japan) On or in compliance with the inventory. IECSC (China) On or in compliance with the inventory. KECI (Korea) On or in compliance with the inventory. NZIoC (New Zealand) On or in compliance with the inventory. PICCS (Phillipines) On or in compliance with the inventory. REACH (European Union) On or in compliance with the Inventory. TSCA (USA) On or in compliance with the inventory.

16. Other Information

Issue Date (D/M/Y): 16/03/2021 Replaces (D/M/Y): 07/02/2017

Issue Date (D/M/Y): 16/03/2021 Replaces (D/M/Y): 07/02/2017

SAFETY DATA SHEET Page 9 of 9

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information provided is designed only as guidance for safe handling, use, processing, storage, transportation, and release and is not considered a warranty or product specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

It is the responsibility of persons in receipt of this product Safety Data Sheet (SDS) to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product.

All information and instructions provided in this Safety Data Sheet are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Simseal shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

This Safety Data Sheet has been prepared in compliance with applicable Canadian and United States law. If you purchase this material outside Canada or the United States, where compliance laws may differ, you should receive from your local Simseal supplier a SDS applicable to the country in which the product is sold or intended to be used. Please note that the appearance and contents of the SDS may vary, even for the same product, between different countries, reflecting the compliance requirements.