



Safety Data Sheet

LOCTITE SI 598 BK RTV SILICONE known as 598 95g tube
Black CH

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SDS No. : 152851

V001.4

Date of issue: 16.07.2021

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE SI 598 BK RTV SILICONE known as 598 95g tube Black CH

Intended use: Silicone sealant

Supplier:

Henkel Australia Pty Ltd
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>
Serious eye damage/eye irritation	Category 1
Skin sensitizer	Category 1
Chronic hazards to the aquatic environment	Category 3

Hazard pictogram:



Signal word:

Danger

Hazard statement(s):	H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.
Precautionary Statement(s):	
Prevention:	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves, eye protection, and face protection.
Response:	P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Get immediate medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Section 3. Composition / information on ingredients

General chemical description:	Mixture resins
Type of preparation:	Silicone sealant
Identity of ingredients:	

Chemical ingredients	CAS-No.	Proportion
Limestone	1317-65-3	30- < 60 %
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	< 10 %
Butan-2-one O,O',O''-(vinylsilylydyne)trioxime	2224-33-1	3- < 10 %
Butan-2-one O,O',O'',O'''-silanetetrayltetraoxime	34206-40-1	< 1 %
non hazardous ingredients~		30- <= 60 %

Section 4. First aid measures

Ingestion:	Rinse mouth, do not induce vomiting, consult a doctor.
Skin:	Immediately wash skin thoroughly with soap and water. Seek medical advice.
Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes. Immediate medical treatment necessary.
Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
First Aid facilities:	Eye wash Normal washroom facilities

Medical attention and special treatment: Treat symptomatically.

Section 5. Fire fighting measures

Suitable extinguishing media: Carbon dioxide, foam, powder
Water spray or fog.

Improper extinguishing media: High pressure waterjet

Decomposition products in case of fire: Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.
Oxides of carbon.
Oxides of silicon.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional fire fighting advice: In case of fire, keep containers cool with water spray.
Collect contaminated fire fighting water separately. It must not enter drains.

Section 6. Accidental release measures

Personal precautions: Use personal protective equipment as described in Section 8.
Avoid contact with skin and eyes.

Environmental precautions: Do not empty into drains / surface water / ground water.

Clean-up methods: Absorb spill with inert material. Shovel material into appropriate container for disposal.
Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Precautions for safe handling: Avoid skin and eye contact.
Refer to Section 8.
Ensure that workrooms are adequately ventilated.

Conditions for safe storage: Suitable material for containers: original container.
Store in a cool, dry, well-ventilated area.
Keep away from heat and direct sunlight.

Section 8. Exposure controls / personal protection

National exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
Nuisance dusts, inhalable dust 1317-65-3	Inhalable dust.		10				
Nuisance dusts, inhalable dust 68611-44-9	Inhalable dust.		10				
Fumed silica (respirable dust) 68611-44-9	Respirable dust.		2				

Silica, Amorphous: Fumed silica (respirable dust) 68611-44-9	Respirable dust.		2				
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- Engineering controls:** Ensure good ventilation/suction at the workplace.
- Eye protection:** Wear chemical goggles and face shield.
- Skin protection:** Use of an impervious apron is recommended.
Suitable protective gloves.
Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.
- Respiratory protection:** If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and chemical properties

- Appearance:** Black
- Odor:** mild
- Melting point / freezing point:** Not available.
- Specific gravity:** 1.3
- Flash point:** > 93 °C (> 199.4 °F)
(Tagliabue closed cup)
- Vapor pressure:** < 5 mm hg
(; 20 °C (68 °F))
- Vapor density:** Heavier than air.
- Density:** 1.05 g/cm³
- Solubility in water:** Polymerises in presence of water.
- VOC content:** < 5.00 %
(2010/75/EC)

Section 10. Stability and reactivity

- Stability:** Stable under recommended storage conditions.
- Conditions to avoid:** Exposure to air or moisture over prolonged periods.
- Incompatible materials:** Strong oxidizing agents.
Reaction with acids: production of heat and carbon dioxide.
- Hazardous decomposition products:** In case of fire toxic gases can be released.

Oxides of carbon.
Oxides of silicon.
- Hazardous polymerization:** Will not occur.

Section 11. Toxicological information

Health Effects:**Ingestion:**

May cause gastrointestinal tract irritation if swallowed.

Skin:

Mild skin irritation.

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

May cause an allergic skin reaction.

Eyes:

Causes serious eye damage.

Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Inhalation:

May cause irritation to nose and throat.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Limestone 1317-65-3	LD50	> 5,000 mg/kg	oral		rat	not specified
	LD50	> 5,000 mg/kg	dermal		rat	not specified
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	LD50	> 5,000 mg/kg	oral		rat	not specified
	LD50	> 2,000 mg/kg	dermal		rat	not specified
Butan-2-one O,O',O''- (vinylsilyldiyl)trioxime 2224-33-1	LD50	> 2,000 mg/kg	oral		rat	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) Expert judgement OECD Guideline 402 (Acute Dermal Toxicity)
	Acute toxicity estimate (ATE) LD50	2,500 mg/kg > 2,009 mg/kg	oral dermal		rat	
Butan-2-one O,O',O'',O'''- silanetrayltetraoxime 34206-40-1	LD50	2,463 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
	LD50	> 2,000 mg/kg	dermal		rat	

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Limestone 1317-65-3	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	not irritating	4 h	rabbit	not specified
Butan-2-one O,O',O''- (vinylsilyldiyl)trioxime 2224-33-1	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Limestone 1317-65-3	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	not irritating		rabbit	not specified
Butan-2-one O,O',O'',O'''- silanetrayltetraoxime 34206-40-1	irritating	1 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Limestone 1317-65-3	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	not sensitising	Patch-Test	human	human repeat insult patch test
Butan-2-one O,O',O''- (vinylsilylidyne)trioxime 2224-33-1	Sensitizing	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Butan-2-one O,O',O'',O'''- silanetetrayltetraoxime 34206-40-1	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Limestone 1317-65-3	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without		Ames Test Chromosome Aberration Test
Butan-2-one O,O',O''- (vinylsilylidyne)trioxime 2224-33-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Butan-2-one O,O',O''- (vinylsilylidyne)trioxime 2224-33-1	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Limestone 1317-65-3	NOAEL=1,000 mg/kg	oral: gavage	48 ddaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	NOAEL=500 mg/kg	oral: feed	5-8 wdaily	rat	not specified
Butan-2-one O,O',O''- (vinylsilylidyne)trioxime 2224-33-1	LOAEL=40 mg/kg	oral: gavage	13 w5 d/week	rat	EPA OPPTS 870.3100 (90- Day Oral Toxicity in Rodents)
Butan-2-one O,O',O'',O'''- silanetetrayltetraoxime 34206-40-1	NOAEL=25 mg/kg	oral: drinking water	90 ddaily: ad libitum	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Ecotoxicity: Harmful to aquatic life.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Limestone 1317-65-3	LC50	> 10,000 mg/l	Fish	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
Limestone 1317-65-3	EC50	> 1,000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Limestone 1317-65-3	EC50	> 200 mg/l	Algae	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Limestone 1317-65-3	EC50	> 1,000 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	LC50	> 10,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	EC50	> 10,000 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butan-2-one O,O',O''- (vinylsilylidyne)trioxime 2224-33-1	LC50	> 560 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Butan-2-one O,O',O''- (vinylsilylidyne)trioxime 2224-33-1	NOEC	50 mg/l	Fish	14 d	Oryzias latipes	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Butan-2-one O,O',O''- (vinylsilylidyne)trioxime 2224-33-1	EC50	201 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butan-2-one O,O',O''- (vinylsilylidyne)trioxime 2224-33-1	EC50	94 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Butan-2-one O,O',O''- (vinylsilylidyne)trioxime 2224-33-1	NOEC	30 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Butan-2-one O,O',O'',O'''- silanetetrayltetraoxime 34206-40-1	LC50	843 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Butan-2-one O,O',O'',O'''- silanetetrayltetraoxime 34206-40-1	NOEC	50 mg/l	Fish	14 d	Oryzias latipes	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Butan-2-one O,O',O'',O'''- silanetetrayltetraoxime 34206-40-1	EC50	201 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butan-2-one O,O',O'',O'''- silanetetrayltetraoxime 34206-40-1	EC50	16 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Butan-2-one O,O',O'',O'''- silanetetrayltetraoxime 34206-40-1	NOEC	2.6 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
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Butan-2-one O,O',O''-(vinylsilyldyne)trioxime 2224-33-1	not readily biodegradable.	aerobic	26 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Butan-2-one O,O',O'',O'''-silanetetrayltetraoxime 34206-40-1	not readily biodegradable.	aerobic	28 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

Section 13. Disposal considerations

Waste disposal of product: Collection and delivery to recycling enterprise or other registered elimination institution. Dispose of as hazardous waste in compliance with local and national regulations.

Disposal for uncleaned package: After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information: Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

Section 15. Regulatory information

SUSMP Poisons Schedule None

AIC: All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICIS).

Section 16. Other information

Abbreviations/acronyms: ADGC - Australian Dangerous Goods Code
STEL - Short term exposure limit
TWA - Time weighted average
AIIC - Australian Inventory of Industrial Chemicals (AIIC)
AICIS - Australian Industrial Chemicals Introduction Scheme

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 1 - 16

Date of previous issue: 29.07.2016

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