

Safety Data Sheet

LOCTITE SI 5331 WH TB100ML EN/D

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SDS No.: 152750

V001.4

Date of issue: 11.08.2021

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

Product name: LOCTITE SI 5331 WH TB100MLEN/D

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> <u>Target organ</u>

Skin irritation Category 2
Serious eye damage/eye irritation
Target Organ Systemic Toxicant - Category 2
Category 1
Category 2

gory 2 Lung

Repeated exposure

Chronic hazards to the aquatic Category 3

environment

Hazard pictogram:



Signal word: Danger

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> **Hazard statement(s):** H315 Causes skin irritation.

> > H318 Causes serious eye damage.

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

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention: P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling. 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.

P314 Get medical advice/attention if you feel unwell.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing.

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

Type of preparation: Acetoxy curing silicone

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Silica, amorphous, fumed, crystfree	112945-52-5	10- < 30 %
Quartz (SiO2) respirable particulates (RCS) >=10%	14808-60-7	1-< 10 %
Methylsilanetriyl triacetate	4253-34-3	3-< 5 %
octamethylcyclotetrasiloxane	556-67-2	< 3 %
non hazardous ingredients~		60- <= 100 %

Section 4. First aid measures

Ingestion: Do not induce vomiting.

Seek medical advice.

Skin: Rinse with running water and soap.

Seek medical advice.

Eyes: Rinse immediately with plenty of water, also under the eyelids, 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 and safety shower

Normal washroom facilities

Medical attention and special

treatment:

Treat symptomatically.

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Section 5. Fire fighting measures

Suitable extinguishing media: Carbon dioxide, foam, powder

Fine water spray

Improper extinguishing media: None known

Decomposition products in case of Formaldehyde

carbon oxides. Silica fume.

Particular danger in case of fire: None

Special protective equipment for

fire-fighters:

Wear self-contained breathing apparatus.

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: Avoid contact with skin and eyes.

Ensure adequate ventilation.

Environmental precautions: Do not let product enter drains.

Clean-up methods: Scrape up as much material as possible.

Ensure adequate ventilation.

Store in a partly filled, closed container until disposal.

Section 7. Handling and storage

Precautions for safe handling: Use only in well-ventilated areas.

Vapours should be extracted to avoid inhalation.

Conditions for safe storage: Store in sealed original container protected against moisture.

Store in a cool, well-ventilated place.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

Section 8. Exposure controls / personal protection

National exposure standards:

In gre dient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
SILICA, AMORPHOUS: FUMED SILICA (RESPIRABLE DUST) 112945-52-5	Respirable dust.		2				
FUMED SILICA (RESPIRABLE DUST) 112945-52-5	Respirable dust.		2				
Nuisance dusts, inhalable dust 112945-52-5	Inhalable dust.		10				
SILICA, CRYST ALLINE: QUARTZ (RESPIRABLE DUST) 14808-60-7	Respirable dust.		0.05				

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QUARTZ (RESPIRABLE DUST)	Respirable	0.05		
14808-60-7	dust.			

Engineering controls: Ensure good ventilation/suction at the workplace.

Eye protection: Wear chemical goggles and face shield.

Skin protection: Wear protective equipment.

Nitrile rubber gloves should be worn.

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: white liquid

Odor: Acetic acid

Flash point: > 100 °C (> 212 °F)
Vapor density: Heavier than air
Density: 1.14 g/cm3

Solubility in water: Polymerises in presence of water.

VOC content: < 5 %

(2010/75/EC)

Section 10. Stability and reactivity

Stability: Stable under recommended storage conditions.

Conditions to avoid: Stable under normal conditions of storage and use.

Incompatible materials: Strong oxidizing agents.

Polymerises in presence of water.

Hazardous decomposition

products:

At higher temperatures (>150C) may release formaldehyde (traces).

Acetic acid is liberated slowly upon contact with moisture.

Section 11. Toxicological information

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Health Effects:

Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, **Ingestion:**

and diarrhea.

Skin: Irritating to skin.

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

Causes serious eye damage. Eyes:

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
Silica, amorphous, fumed crystfree 112945-52-5	LD50 LC0 LD50	> 5,000 mg/kg 0.139 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) not specified OECD Guideline 402 (Acute Dermal Toxicity)
Quartz (SiO2) respirable particulates (RCS) >=10% 14808-60-7 Methylsilanetriyl	LD50 LD50	> 22,500 mg/kg > 5,000 mg/kg 1,600 mg/kg	oral dermal oral		rat rat	not specified not specified OECD Guideline 401 (Acute
triacetate 4253-34-3	LD30	1,000 mg/kg	orai		Tat	Oral Toxicity)
oct amethylcyclotetrasilox ane 556-67-2	LD50 LC50 LD50	> 4,800 mg/kg 36 mg/l > 2,375 mg/kg	oral inhalation dermal	4 h	rat rat rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Silica, amorphous, fumed, crystfree 112945-52-5	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Methylsilanetriyl triacetate 4253-34-3	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
octamethylcyclotetrasilox ane 556-67-2	not irritating		rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Silica, amorphous, fumed,	not irritating		rabbit	OECD Guideline 405 (Acute
crystfree				Eye Irritation / Corrosion)
112945-52-5				
Methylsilanetriyl	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute
triacetate				Eye Irritation / Corrosion)
4253-34-3				
octamethylcyclotetrasilox	not irritating		rabbit	equivalent or similar to OECD
ane				Guideline 405 (AcuteEye
556-67-2				Irritation/Corrosion)

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Respiratory or skin sensitization:

Hazardous components	Result	Test type	Species	Method
CAS-No.				
Methylsilanetriyl	not sensitising	Guinea pig	guinea pig	OECD Guideline 406 (Skin
triacetate	_	maximisat		Sensitisation)
4253-34-3		ion test		
octamethylcyclotetrasilox	not sensitising	Guinea pig	guinea pig	OECD Guideline 406 (Skin
ane		maximisat		Sensitisation)
556-67-2		ion test		

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study/ Route of administration	Metabolic activation / Exposure time	Species	Method
Silica, amorphous, fumed, crystfree 112945-52-5	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro			not specified not specified not specified
Methylsilanetriyl triacetate 4253-34-3	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)
oct amethylcyclotetrasilox ane 556-67-2	negative negative negative	bacterial gene mutation assay 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) equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
octamethylcyclotetrasilox ane 556-67-2	negative negative	inhalation oral: gavage		rat rat	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)

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Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Methylsilanetriyl triacetate 4253-34-3	NOAEL=50 mg/kg	oral: gavage	28-51 ddaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
octamethylcyclotetrasilox ane 556-67-2	LOAEL=35 ppm	inhalation	6 h nose only inhalation5 days/week for 13 weeks	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
octamethylcyclotetrasilox ane 556-67-2	NOAEL=960 mg/kg	dermal	3 w5 d/w	rabbit	equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

Section 12. Ecological information

General ecological information: Cured Loctite products are typical polymers and do not pose any immediate

environmental hazards., Precautions required with respect to Environmental Hazards of articles in which this product is used should be considered.

Ecotoxicity: Harmful to aquatic life.

Toxicity:

Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity Study	time		
Silica, amorphous, fumed,	LC50	> 10,000 mg/l	Fish	96 h	Brachydanio rerio (new name:	OECD Guideline
crystfree		, ,			Danio rerio)	203 (Fish, Acute
112945-52-5					,	Toxicity Test)
Methylsilanetriyl triacetate	LC50	> 110 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline
4253-34-3		C			, ,	203 (Fish, Acute
						Toxicity Test)
octamethylcyclotetrasiloxane	NOEC	0.0044 mg/l	Fish	93 d	Salmo gairdneri (new name:	EPA OPPTS
556-67-2		· ·			Oncorhynchus mykiss)	797.1600 (Fish
					•	Early Life Stage
						Toxicity Test)
octamethylcyclotetrasiloxane	LC50	Toxicity>Water	Fish	96 h	Oncorhynchus mykiss	EPA OTS
556-67-2		solubility				797.1400 (Fish
		·				Acute Toxicity
						Test)
octamethylcyclotetrasiloxane	EC50	Toxicity>Water	Daphnia	48 h	Daphnia magna	EPA OT S
556-67-2		solubility				797.1300 (Aquatic
						Invertebrate Acute
						Toxicity Test,
						Freshwater
						Daphnids)
octamethylcyclotetrasiloxane	EC50	Toxicity>Water	Algae	96 h	Selenastrum capricomutum	EPA OTS
556-67-2		solubility			(new name: Pseudokirchneriella	797.1050 (Algal
					subcapitata)	Toxicity, Tiers I
						and II)
octamethylcyclotetrasiloxane	EC10	0.022 mg/l	Algae	96 h	Selenastrum capricomutum	EPA OT S
556-67-2					(new name: Pseudokirchneriella	797.1050(Algal
					subcapitata)	Toxicity, Tiers I
					_	and II)
octamethylcyclotetrasiloxane	EC50	Toxicity>Water	Bacteria	3 h	activated sludge	ISO 8192 (Test for
556-67-2		solubility				Inhibition of
		•				Oxygen
						Consumption by
						Activated Sludge)

Persistence and degradability:

Hazardous components	Result	Route of	Degradability	Method
CAS-No.		application		

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octamethylcyclotetrasiloxane	not readily biodegradable.	aerobic	3.7 %	OECD Guideline 310 (Ready
556-67-2				BiodegradabilityCO2 in Sealed
				Vessels (Headspace Test)

Bioaccumulative potential / Mobility in soil:

Haz ardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.	_	factor (BCF)	time	-	_	
octamethylcyclotetrasiloxane		12,400	28 d	Pimephales		EPA OT S 797.1520 (Fish
556-67-2				promelas		Bioconcentration Test-
						RainbowTrout)
octamethylcyclotetrasiloxane	6.488				25.1 ℃	OECD Guideline 123
556-67-2						(Partition Coefficient (1-
						Octanol/Water), Slow-
						Stirring Method)

Section 13. Disposal considerations

Waste disposal of product: Dispose of in accordance with local and national regulations.

Small amounts of cured or dried product residues can be disposed of as household waste

or as industrial waste similar to household waste.

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.

Disposal must be made according to official regulations.

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

Section 16. Other information

Abbreviations/acronyms: ADGC - Australian Dangerous Goods Code

IATA-DGR: International Air Transport Association - Dangerous Goods Regulations

IMDG: International Maritime Dangerous Goods code AIIC - Australian Inventory of Industrial Chemicals (AIIC) AICIS - Australian Industrial Chemicals Introduction Scheme

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

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Date of previous issue:

29.07.2016

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