



Safety Data Sheet

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LOCTITE SI 587 BL known as Loctite 587 95G AU

SDS No. : 152850

V001.2

Date of issue: 07.10.2020

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

Product name: LOCTITE SI 587 BL known as Loctite 587 95G AU

Intended use: 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 2A
Skin sensitizer	Category 1
Carcinogenicity	Category 2
Chronic hazards to the aquatic environment	Category 3

Hazard pictogram:



Signal word:

Danger

Hazard statement(s):	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H351 Suspected of causing cancer. H412 Harmful to aquatic life with long lasting effects.
Precautionary Statement(s):	
Prevention:	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. 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. P281 Use personal protective equipment as required.
Response:	P302+P352 IF ON SKIN: Wash with plenty of water. 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. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical attention. P363 Wash contaminated clothing before reuse.
Storage:	P405 Store locked up.
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: Adhesive/Sealant

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	< 5 %
2-butanone oxime	96-29-7	< 5 %
octamethylcyclotetrasiloxane	556-67-2	< 5 %
White mineral oil (petroleum), highly refined	8042-47-5	< 5 %
Dimethylindineodecanoate	68928-76-7	<= 1 %
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.
Obtain medical attention if irritation persists.
Wash clothing before reuse.

Eyes:	Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if 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 and supportively.

Section 5. Fire fighting measures

Suitable extinguishing media:	Carbon dioxide, foam, powder Fine water spray
Decomposition products in case of fire:	carbon oxides. Silica fume
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 a cool, well-ventilated place.

Section 8. Exposure controls / personal protection

National exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m ³)	Peak Limit. (ppm)	Peak Limit. (mg/m ³)	STEL (ppm)	STEL (mg/m ³)
OIL MIST, REFINED MINERAL 8042-47-5			5				
TIN, ORGANIC COMPOUNDS (AS SN) 68928-76-7			0.1				

TIN, ORGANIC COMPOUNDS (AS SN) 68928-76-7							0.2
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Engineering controls:	Use only with adequate ventilation.
Eye protection:	Wear protective glasses.
Skin protection:	<p>The use of chemical resistant gloves such as Nitrile is recommended.</p> <p>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.</p>
Respiratory protection:	<p>Use only in well-ventilated areas.</p> <p>If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.</p>

Section 9. Physical and chemical properties

Appearance:	blue paste
Odor:	mild
Boiling point:	> 200 °C (> 392 °F)
Flash point:	> 94 °C (> 201.2 °F)
Vapor pressure: (; 20 °C (68 °F))	< 0.1 mm hg
Density:	1.31 g/cm ³
Solubility in water:	Not soluble
VOC content: (2010/75/EC)	< 5 %

Section 10. Stability and reactivity

Conditions to avoid:	Stable under normal conditions of storage and use.
Incompatible materials:	Acids. Bases. Oxidizing agents. Polymerises in presence of water.
Hazardous decomposition products:	<p>Methylethylketoxime formed during cure.</p> <p>Methanol is liberated slowly upon exposure to moisture. In case of fire toxic gases can be released.</p>

Section 11. Toxicological information

Health Effects:**Ingestion:** Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.**Skin:** May cause skin sensitization.**Eyes:** This product is severely irritating to the eyes.**Inhalation:** May cause irritation to nose and throat.**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Butan-2-one O,O',O'- (vinylsilyldyne)trioxime 2224-33-1	LD50 LD50	> 2,000 mg/kg > 2,009 mg/kg	oral dermal		rat rat	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) OECD Guideline 402 (Acute Dermal Toxicity)
2-butanone oxime 96-29-7	Acute toxicity estimate (ATE) Acute toxicity estimate (ATE)	100 mg/kg 1,100 mg/kg	oral dermal			Expert judgement Expert judgement
octamethylcyclotetrasilox- 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)
White mineral oil (petroleum), highly refined 8042-47-5	LD50 LC50 LD50	> 5,000 mg/kg > 5 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Dimethyltindineodecanoat- e 68928-76-7	LD50 LD50	160 mg/kg > 2,000 mg/kg	oral dermal		rat rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
octamethylcyclotetrasilox- ane 556-67-2	not irritating		rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
White mineral oil (petroleum), highly refined 8042-47-5	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Dimethyltindineodecanoat- e 68928-76-7	irritating or corrosive	15 min	Human, EpiSkin™ (SM), Reconstruc- ted Human Epidermis (RHE)	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
Dimethyltindineodecanoat- e 68928-76-7	not corrosive	1 h	Human, EpiDerm™ SIT (EPI- 200), Reconstruc- ted Human Epidermis (RHE)	OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2-butanone oxime 96-29-7	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
octamethylcyclotetrasiloxane 556-67-2	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
White mineral oil (petroleum), highly refined 8042-47-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Butan-2-one O,O',O'- (vinylsilyldiene)trioxime 2224-33-1	Sensitizing	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
2-butanone oxime 96-29-7	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
octamethylcyclotetrasiloxane 556-67-2	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
White mineral oil (petroleum), highly refined 8042-47-5	not sensitising	Buehler 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
Butan-2-one O,O',O'- (vinylsilyldyne)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'- (vinylsilyldyne)trioxime 2224-33-1	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2-butanone oxime 96-29-7	negative negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	with and without with		EPA OPPTS 870.5265 (The Salmonella typhimurium Bacterial Reverse Mutation Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
2-butanone oxime 96-29-7	negative negative	oral: gavage oral: feed		rat Drosophila melanogaster	EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)
octamethylcyclotetrasilox 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)
White mineral oil (petroleum), highly refined 8042-47-5	negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	with with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
White mineral oil (petroleum), highly refined 8042-47-5	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
Butan-2-one O,O',O'- (vinylsilylidyne)trioxime 2224-33-1	NOAEL=10 mg/kg	oral: gavage		rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2-butanone oxime 96-29-7	LOAEL=40 mg/kg	oral: gavage	13 w daily	rat	not specified
octamethylcyclotetrasilox- ane 556-67-2	LOAEL=35 ppm	inhalation	6 h nose only inhalation 5 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 w 5 d/w	rabbit	equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
White mineral oil (petroleum), highly refined 8042-47-5	NOAEL= \geq 1,600 mg/kg	oral: feed	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Section 12. Ecological information

General ecological information:

Cured Loctite products are typical polymers and do not pose any immediate environmental hazards., In the cured state contribution of this product to Environmental Hazards is insignificant in comparison to articles in which it is used., Precautions required with respect to Environmental Hazards of articles in which this product is used should be considered.

Ecotoxicity:

Harmful to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
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)
2-butanone oxime 96-29-7	LC50	320 - 1,000 mg/l	Fish	96 h	Leuciscus idus	DIN 38412-15
2-butanone oxime 96-29-7	NOEC	50 mg/l	Fish	14 d	Oryzias latipes	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
2-butanone oxime 96-29-7	EC50	> 500 mg/l	Daphnia	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
2-butanone oxime 96-29-7	EC50	11.8 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-butanone oxime 96-29-7	NOEC	2.56 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-butanone oxime 96-29-7	EC10	177 mg/l	Bacteria	17 h		DIN 38412, part 8 (Pseudomonas Zellvermehrungshe- mm-Test)
octamethylcyclotetrasiloxane 556-67-2	NOEC	0.0044 mg/l	Fish	93 d	Salmo gairdneri (new name: Oncorhynchus mykiss)	EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)
octamethylcyclotetrasiloxane 556-67-2	LC50	Toxicity > Water solubility	Fish	96 h	Oncorhynchus mykiss	EPA OTS 797.1400 (Fish Acute Toxicity Test)
octamethylcyclotetrasiloxane 556-67-2	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)
octamethylcyclotetrasiloxane 556-67-2	EC50	Toxicity > Water solubility	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
octamethylcyclotetrasiloxane 556-67-2	EC10	0.022 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
octamethylcyclotetrasiloxane 556-67-2	EC50	Toxicity > Water solubility	Bacteria	3 h	activated sludge	ISO 8192 (Test for Inhibition of Oxygen)

White mineral oil (petroleum), highly refined 8042-47-5	LL50	> 100 mg/l	Fish	96 h	Oncorhynchus mykiss	Consumption by Activated Sludge)
White mineral oil (petroleum), highly refined 8042-47-5	EL50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 203 (Fish, Acute Toxicity Test)
White mineral oil (petroleum), highly refined 8042-47-5	NOELR	100 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
White mineral oil (petroleum), highly refined 8042-47-5	IC50	> 100 mg/l	Bacteria	93 d	other:	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dimethyltindineodecanoate 68928-76-7	LC50	Toxicity > Water solubility	Fish	96 h	not specified	other guideline:
Dimethyltindineodecanoate 68928-76-7	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dimethyltindineodecanoate 68928-76-7	EC50	Toxicity > Water solubility	Algae	72 h	not specified	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
						OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Butan-2-one O,O',O'- (vinylsilylidyne)trioxime 2224-33-1	not readily biodegradable.	aerobic	26 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
2-butanone oxime 96-29-7	inherently biodegradable	aerobic	70 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
octamethylcyclotetrasiloxane 556-67-2	not readily biodegradable.	aerobic	3.7 %	OECD Guideline 310 (Ready Biodegradability CO ₂ in Sealed Vessels (Headspace Test)
White mineral oil (petroleum), highly refined 8042-47-5	not readily biodegradable.	aerobic	31.3 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Dimethyltindineodecanoate 68928-76-7		aerobic	0 - 60 %	OECD 301 A - F

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
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2-butanone oxime 96-29-7		0.5 - 0.6	42 d	Oryzias latipes	25 °C	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
2-butanone oxime 96-29-7	0.65				25 °C	OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)
octamethylcyclotetrasiloxane 556-67-2		12,400	28 d	Pimephales promelas		EPA OTS 797.1520 (Fish Bioconcentration Test- Rainbow Trout)
octamethylcyclotetrasiloxane 556-67-2	6.488				25.1 °C	OECD Guideline 123 (Partition Coefficient (1- Octanol / Water), Slow- Stirring Method)
White mineral oil (petroleum), highly refined 8042-47-5	> 4					EU Method A.8 (Partition Coefficient)
Dimethyltindineodecanoate 68928-76-7		8,650				QSAR (Quantitative Structure Activity Relationship)
Dimethyltindineodecanoate 68928-76-7	5.5					QSAR (Quantitative Structure Activity Relationship)

Section 13. Disposal considerations

- Waste disposal of product:** Follow all local, state, federal and provincial regulations for disposal.
- 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

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

Section 16. Other information

Abbreviations/acronyms:

ADGC - Australian Dangerous Goods Code
GHS: Globally Harmonized System
CAS: Chemical Abstracts Service
OECD: Organization for Economic Cooperation and Development
NOAEL: No Observed Adverse Effect Level
LD 50: Lethal Dose 50%
LC 50: Lethal Concentration 50%
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

Reason for issue:

Reviewed MSDS. Reissued with new date. involved chapters: 2,3,4,5,9,12,16

Date of previous issue:

06.11.2015

Disclaimer:

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel Australia Pty. Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel Australia Pty. Limited concerning the properties of the material.

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