

Safety Data Sheet

Page 1 of 10

LOCTITE SI 587 BL FLANGE SEALANT known as 587 Blue Silicone 300ml

SDS No.: 153776 V001.3

Date of issue: 25.01.2022

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

Product name: LOCTITE SI 587 BL FLANGE SEALANT known as 587 Blue Silicone 300ml

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 03 9724 6556

Section 2. Hazards identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

Hazard ClassHazard CategorySerious eye damage/eye irritationCategory 1

Serious eye damage/eye irritation
Skin sensitizer
Carcinogenicity
Carcinogenicity
Category 1
Category 1
Category 1
Category 2

Single exposure

Hazard pictogram:



Signal word: Danger

SDS No.: 153776

V001.3

LOCTITE SI 587 BL FLANGE SEALANT known as 587 Blue

Silicone 300ml

Hazard statement(s): H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H350 May cause cancer.

H371 May cause damage to organs.

Precautionary Statement(s):

Prevention: P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash hands thoroughly after handling.

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

P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/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.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it 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:** 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"-(vinylsilylidyne)trioxime	2224-33-1	3-< 10 %
2-butanone oxime	96-29-7	1- < 3 %
non hazardous ingredients~		30- <= 60 %

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.

Page 3 of 10

SDS No.: 153776 V001.3

LOCTITE SI 587 BL FLANGE SEALANT known as 587 Blue

Silicone 300ml

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 and safety shower

Section 5. Fire fighting measures

Suitable extinguishing media: Carbon dioxide, foam, powder

Decomposition products in case of Formaldehyde

fire:

Silica fume
Oxides of carbon.
Acrid smoke and fumes.

Special protective equipment for

fire-fighters:

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Section 6. Accidental release measures

Personal precautions: Avoid contact with skin and eyes.

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.

Never allow product to get in contact with water during storage

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				

Page 4 of 10

SDS No.: 153776

V001.3

LOCTITE SI 587 BL FLANGE SEALANT known as 587 Blue

Silicone 300ml

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure

limits.

Eye protection: Wear protective glasses.

Skin protection:

The use of chemical resistant gloves such as Nitrile is recommended.

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: blue

paste mild

Odor: mild Specific gravity: 1.31

Flash point: $> 93 \, ^{\circ}\text{C} \, (> 199.4 \, ^{\circ}\text{F})$

(Tagliabue closed cup)

Vapor pressure: < 6.5 mbar

(; 20 °C (68 °F))

Density: 1.31 g/cm³

VOC content (2004/42/EC) 0 % (VOCV 814.018 VOC regulation CH)

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Exposure to air or moisture over prolonged periods.

Incompatible materials: Acids.

Bases.

Oxidizing agents.

Polymerizes on contact with water.

Hazardous decomposition

products:

Oxides of carbon.

Oxides of silicon. Formaldehyde

Methyl ethyl ketoxime formed during cure.

Section 11. Toxicological information

Page 5 of 10

SDS No.: 153776 V001.3

LOCTITE SI 587 BL FLANGE SEALANT known as 587 Blue

Silicone 300ml

Health Effects:

Ingestion: May be harmful if swallowed.

Not expected under normal conditions of use.

Skin: Repeated or prolonged skin contact may result in allergic sensitization.

Prolonged or repeated contact with uncured sealant may cause skin irritation.

Eyes: Causes serious eye damage.

Inhalation: Inhalation of vapors from uncured sealant may cause respiratory tract irritation.

When heated to temperatures exceeding 300° F (150° C) in the presence of air, silicones may form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate the eyes, nose and throat. Safe handling conditions may be maintained by keeping formaldehyde vapor concentrations below the OSHA permissible limit.

Acute toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Limestone	LD50	> 5,000 mg/kg	oral		rat	not specified
1317-65-3	LD50	> 5,000 mg/kg			rat	not specified
			dermal			
Silane, dichlorodimethyl-,	LD50	> 5,000 mg/kg	oral		rat	not specified
reaction products with	LD50	> 2,000 mg/kg			rat	not specified
silica			dermal			
68611-44-9						
Butan-2-one O,O',O"-	LD50	> 2,000 mg/kg	oral		rat	OECD Guideline 425 (Acute
(vinylsilylidyne)trioxime	Acute	2,500 mg/kg	oral			Oral Toxicity: Up-and-Down
2224-33-1	toxicity	> 2,009 mg/kg			rat	Procedure)
	estimate		dermal			Expert judgement
	(ATE)					OECD Guideline 402 (Acute
	LD50					Dermal Toxicity)
2-butanone oxime	Acute	100 mg/kg	oral			Expert judgement
96-29-7	toxicity	1,100 mg/kg				Expert judgement
	estimate		dermal			
	(ATE)					
	Acute					
	toxicity					
	estimate					
	(ATE)					

Skin corrosion/irritation:

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

Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Limestone	not irritating		rabbit	OECD Guideline 405 (Acute
1317-65-3				Eye Irritation / Corrosion)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	not irritating		rabbit	not specified
2-butanone oxime 96-29-7	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Page 6 of 10

SDS No.: 153776 V001.3

LOCTITE SI 587 BL FLANGE SEALANT known as 587 Blue Silicone $300\mathrm{ml}$

Respiratory or skin sensitization:

Hazardous components	Result	Test type	Species	Method
CAS-No.				
Limestone	not sensitising	Mouse	mouse	OECD Guideline 429 (Skin
1317-65-3		local		Sensitisation: Local Lymph
		lymphnod		Node Assay)
		e assay		
		(LLNA)		
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"-	Sensitizing	Guinea pig	guinea pig	OECD Guideline 406 (Skin
(vinylsilylidyne)trioxime		maximisat		Sensitisation)
2224-33-1		ion test		
2-butanone oxime	sensitising	Guinea pig	guinea pig	OECD Guideline 406 (Skin
96-29-7	-	maximisat		Sensitisation)
		ion test		

Germ cell mutagenicity:

Hazardous components	Result	Type of study /	Metabolic	Species	Method
CAS-No.		Route of	activation /		
		administration	Exposure time		
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)
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)

Page 7 of 10

SDS No.: 153776 V001.3

LOCTITE SI 587 BL FLANGE SEALANT known as 587 Blue

Silicone 300ml

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)
2-butanone oxime 96-29-7	LOAEL=40 mg/kg	oral: gavage	13 w5 d/week	rat	EPA OPPTS 870.3100 (90- Day Oral Toxicity in Rodents)

Section 12. Ecological information

SDS No.: 153776 V001.3

LOCTITE SI 587 BL FLANGE SEALANT known as 587 Blue Silicone $300\mathrm{ml}$

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:

Do not empty into drains / surface water / ground water.

Toxicity:

		Study	time		
	10,000 mg/l	Fish	96 h	not specified	OECD Guideline
1317-65-3	, 6			1	203 (Fish, Acute
		ļ			Toxicity Test)
	1,000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
1317-65-3					202 (Daphnia sp. Acute
					Immobilisation
					Test)
Limestone EC50 >	200 mg/l	Algae	72 h	not specified	OECD Guideline
1317-65-3				•	201 (Alga, Growth
					Inhibition Test)
	1,000 mg/l	Bacteria	3 h	activated sludge of a	OECD Guideline
1317-65-3				predominantly domestic sewage	209 (Activated Sludge, Respiration
					Inhibition Test)
Silane, dichlorodimethyl-, LC50 >	10,000 mg/l	Fish	96 h	Brachydanio rerio (new name:	OECD Guideline
reaction products with silica				Danio rerio)	203 (Fish, Acute
68611-44-9					Toxicity Test)
	10,000 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline
reaction products with silica 68611-44-9					202 (Daphnia sp. Acute
08011-44-9					Immobilisation
					Test)
Butan-2-one O,O',O"- LC50 >	560 mg/l	Fish	96 h	Brachydanio rerio (new name:	OECD Guideline
(vinylsilylidyne)trioxime	-			Danio rerio)	203 (Fish, Acute
2224-33-1	n				Toxicity Test)
Butan-2-one O,O',O"- NOEC	50 mg/l	Fish	14 d	Oryzias latipes	OECD Guideline
(vinylsilylidyne)trioxime 2224-33-1					204 (Fish, Prolonged Toxicity
2224-33-1					Test: 14-day Study)
Butan-2-one O,O',O"- EC50	201 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
(vinylsilylidyne)trioxime					202 (Daphnia sp.
2224-33-1					Acute
					Immobilisation Test)
Butan-2-one O,O',O"- EC50	94 mg/l	Algae	72 h	Selenastrum capricornutum	OECD Guideline
(vinylsilylidyne)trioxime	,g.1	1 IIgue	, _ 11	(new name: Pseudokirchneriella	
2224-33-1				subcapitata)	Inhibition Test)
Butan-2-one O,O',O"- NOEC	30 mg/l	Algae	72 h	Selenastrum capricornutum	OECD Guideline
(vinylsilylidyne)trioxime				(new name: Pseudokirchneriella	
2224-33-1 2-butanone oxime LC50 320	- 1,000 mg/l	Fish	96 h	subcapitata) Leuciscus idus	Inhibition Test) DIN 38412-15
96-29-7	- 1,000 mg/1	FISH	90 11	Leuciscus idus	DIN 36412-13
2-butanone oxime NOEC	50 mg/l	Fish	14 d	Oryzias latipes	OECD Guideline
96-29-7	Ü			, I	204 (Fish,
					Prolonged Toxicity
21.	500 //	5 1 .	40.1		Test: 14-day Study)
	500 mg/l	Daphnia	48 h	Daphnia magna	EU Method C.2
96-29-7					(Acute Toxicity for Daphnia)
2-butanone oxime EC50	11.8 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline
96-29-7	8	<i>3</i>		r	201 (Alga, Growth
					Inhibition Test)
	2.56 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline
96-29-7					201 (Alga, Growth
2-butanone oxime EC10	177 mg/l	Bacteria	17 h		Inhibition Test) DIN 38412, part 8
96-29-7	1 / / IIIg/I	Dacteria	1 / 11		(Pseudomonas
					Zellvermehrungshe
					mm-Test)

Page 9 of 10

SDS No.: 153776 V001.3

LOCTITE SI 587 BL FLANGE SEALANT known as 587 Blue

Silicone 300ml

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)

Bioaccumulative potential / Mobility in soil:

Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
2-butanone oxime		0.5 - 0.6	42 d	Oryzias latipes	25 °C	OECD Guideline 305 C
96-29-7						(Bioaccumulation: Test for
						the Degree of
						Bioconcentration in Fish)
2-butanone oxime	0.65				25 °C	OECD Guideline 107
96-29-7						(Partition Coefficient (n-
						octanol / water), Shake
						Flask Method)

Section 13. Disposal considerations

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

Contribution of this product to waste is very insignificant in comparison to article in

which it is used

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

Page 10 of 10

SDS No.: 153776 V001.3

LOCTITE SI 587 BL FLANGE SEALANT known as 587 Blue

Silicone 300ml

Section 16. Other information

Abbreviations/acronyms: ADGC - Australian Dangerous Goods Code

ASCC - Australian Safety and Compensation Council

SUSMP - Standard for the Uniform Medicines of Medicines and Poisons

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 MSDS. Reissued with new date. involved chapters: 2,15,16

Date of previous issue: 02.03.2011

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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