

Safety Data Sheet

LOCTITE 518 GASKET ELIMINATOR TT50MLAU

Page 1 of 11

SDS No. : 544621 V001.1 Date of issue: 15.10.2021

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

Product name:

LOCTITE 518 GASKET ELIMINATOR TT50MLAU

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:

Hazard Class	Hazard Category	Target organ
Skin irritation	Category 2	
Serious eye irritation	Category 2A	
Skin sensitizer	Category 1	
Target Organ Systemic Toxicant -	Category 3	respiratory tract irritation
Single exposure		
Acute hazards to the aquatic environment	Category 3	
Chronic hazards to the aquatic environment	Category 3	
Hazard pictogram:		
Signal word:	Warning	

Hazard statement(s):	H315 Causes skin irritation. H317 May cause an allergic skin reaction.
	H319 Causes serious eye irritation.
	H335 May cause respiratory irritation.
	H412 Harmful to aquatic life with long lasting effects.
Precautionary Statement(s):	
Prevention:	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264 Wash hands thoroughly after handling.
	P271 Use only outdoors or in a well-ventilated area.
	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.
	P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position
	comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313 If eye irritation persists: Get medical advice/attention.
	P362 Take off contaminated clothing.
Storage:	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
	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

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
2-Hydroxy-3-phenoxypropyl methacrylate	16926-87-7	10- < 20 %
3,3,5 Trimethylcyclohexyl methacrylate	7779-31-9	< 10 %
2-Hydroxyethyl methacrylate	868-77-9	1 - < 10 %
Silica, amorphous, fumed, crystal-free	112945-52-5	< 10 %
3-[2-(Methacryloyloxy)ethoxycarbonyl]propionic	20882-04-6	< 1 %
acid		
Acetic acid, 2-phenylhydrazide	114-83-0	< 1 %
2-Propenoic acid, 2-carboxyethyl ester	24615-84-7	< 1 %
Limonene D	5989-27-5	< 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, consult doctor if complaint persists.
First Aid facilities:	Eye wash and safety shower Normal washroom facilities
Medical attention and special treatment:	Treat symptomatically.

Section 5. Fire fighting measures	
Suitable extinguishing media:	Foam, dry chemical or carbon dioxide.
Decomposition products in case of fire:	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide.
Special protective equipment for fire-fighters:	Wear full protective clothing. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
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:	Remove sources of ignition.
	Avoid skin and eye contact.
	Wear protective equipment.
	Ensure adequate ventilation.
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. 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:	See advice in section 8
	Use only in well-ventilated areas.
	Avoid skin and eye contact.
	Wear protective equipment.
Conditions for safe storage:	Store between 50°F and 80°F. (10° and 27° C)
	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep
	container tightly closed until ready for use.
	Store below 100°F (38°C).

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)
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				

Engineering controls:	Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.
Eye protection:	For eye protection, use tightly fitted safety goggles and a face-shield
Skin protection:	Use of an impervious apron is recommended. Suitable protective gloves. Recommended gloves include butyl rubber and neoprene. 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:	red
	liquid
Odor:	mild
pH:	Not applicable, Mixture reacts with water.
Flash point:	> 100 °C (> 212 °F)
(no method)	
Density:	1.1 g/cm3
Solubility in water:	Not miscible

Section 10. Stability and reactivity
Stable under normal conditions of temperature and pressure.
Excessive heat.
Oxidizing agents. Aldehydes. Reducing agents. Reaction with strong acids.
Thermal decomposition can lead to release of irritating gases and vapors.
Carbon dioxide.

Section 11. Toxicological information

Health Effects:	
Ingestion:	May cause gastrointestinal disturbances.
_	Ingestion of large quantities may cause gastrointestinal irritation with nausea, vomiting and
	diarrhea.
Skin:	Causes skin irritation.
	Symptoms may include redness, edema, drying, defatting and cracking of the skin.
	May cause skin sensitization.
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:	This product is irritating to the respiratory system.
	Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Acute toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
3,3,5 Trimethylcyclohexyl	LD0	> 5,000 mg/kg	oral		rat	OECD Guideline 401 (Acute
methacrylate	LD50	> 5,000 mg/kg	oral		rat	Oral Toxicity)
7779-31-9	LD0	> 2,000 mg/kg			rat	OECD Guideline 401 (Acute
	LD50	> 2,000 mg/kg	dermal		rat	Oral Toxicity)
			dermal			OECD Guideline 402 (Acute
						Dermal Toxicity)
						OECD Guideline 402 (Acute
						Dermal Toxicity)
2-Hydroxyethyl	LD50	> 5,000 mg/kg	oral		rat	not specified
methacrylate	LD50	> 5,000 mg/kg			rabbit	not specified
868-77-9			dermal			
Silica, amorphous, fumed,	LD50	> 5,000 mg/kg	oral		rat	OECD Guideline 401 (Acute
crystal-free	LC50	> 58.8 mg/l	inhalation	4 h	rat	Oral Toxicity)
112945-52-5	LD50	> 2,000 mg/kg	dermal		rabbit	OECD Guideline 403 (Acute
						Inhalation Toxicity)
						OECD Guideline 402 (Acute
						Dermal Toxicity)
3-[2-	LD50	> 2,000 mg/kg	oral		rat	OECD Guideline 423 (Acute
(Methacryloyloxy)ethoxy						Oral toxicity)
carbonyl]propionic acid						
20882-04-6						
Acetic acid, 2-	LD50	270 mg/kg	oral		rat	not specified
phenylhydrazide						
114-83-0						
Limonene D	LD50	> 5,000 mg/kg	oral		rat	equivalent or similar to OECD
5989-27-5	LD50	> 5,000 mg/kg			rabbit	Guideline 401 (Acute Oral
			dermal			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, crystal-free 112945-52-5	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
3-[2- (Methacryloyloxy)ethoxy carbonyl]propionic acid 20882-04-6	not irritating	0.25 h	Human, EPISKIIN™ Reconstitute d Human Epidermis model	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
3-[2- (Methacryloyloxy)ethoxy carbonyl]propionic acid 20882-04-6	Not Classified	4 h	Human, EPISKIIN™ Reconstitute d Human Epidermis model	OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)
Limonene D 5989-27-5	moderately irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2-Hydroxyethyl methacrylate 868-77-9	irritating		rabbit	Draize Test
Silica, amorphous, fumed, crystal-free 112945-52-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
3-[2- (Methacryloyloxy)ethoxy carbonyl]propionic acid 20882-04-6	Category I	10 min	Bovine, cornea, in vitro test	OECD Guideline 437 (BCOP)
Limonene D 5989-27-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2-Hydroxyethyl methacrylate 868-77-9	sensitising	Guinea pig maximisat ion test	guinea pig	not specified
Limonene D 5989-27-5	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-Hydroxyethyl methacrylate 868-77-9	negative positive negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay bacterial reverse mutation assay (e.g Ames test)	with and without 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) OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay)
2-Hydroxyethyl methacrylate 868-77-9	negative	oral: gavage		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Silica, amorphous, fumed, crystal-free 112945-52-5	negative negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay in vitro mammalian chromosome aberration test	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
3-[2- (Methacryloyloxy)ethoxy carbonyl]propionic acid 20882-04-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Limonene D 5989-27-5	negative negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay sister chromatid exchange assay in mammalian cells	with and without 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) equivalent or similar to OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
Limonene D 5989-27-5	negative	oral: gavage		rat	not specified

Page 8 of 11

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	NOAEL=1,000 mg/kg	oral: gavage	28 ddaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2-Hydroxyethyl methacrylate 868-77-9	NOAEL=100 mg/kg	oral: gavage	once daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Silica, amorphous, fumed, crystal-free 112945-52-5	NOAEL=< 0.046 mg/l	inhalation	14 days6 hours/day, 5 days/week	rat	not specified
Silica, amorphous, fumed, crystal-free 112945-52-5	NOAEL=> 4,500 mg/kg	oral: feed	13 weeksdaily, continous	rat	
Limonene D 5989-27-5	NOAEL=825 mg/kg	oral: gavage	16 d5 d/w	rat	equivalent or similar to OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Section 12. Ecological information

General ecological information:

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

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
3,3,5 Trimethylcyclohexyl methacrylate	LC50	1.9 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute
7779-31-9 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	EC50	14.43 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation
3,3,5 Trimethylcyclohexyl methacrylate	EC10	0.43 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	Test) OECD Guideline 201 (Alga, Growth
7779-31-9 2-Hydroxyethyl methacrylate 868-77-9	LC50	> 100 mg/l	Fish	96 h	Oryzias latipes	Inhibition Test) OECD Guideline 203 (Fish, Acute
2-Hydroxyethyl methacrylate 868-77-9	EC50	380 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation
2-Hydroxyethyl methacrylate 868-77-9	EC50	836 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	Test) OECD Guideline 201 (Alga, Growtl Inhibition Test)
2-Hydroxyethyl methacrylate 868-77-9	NOEC	400 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline
2-Hydroxyethyl methacrylate 868-77-9	EC0	> 3,000 mg/l	Bacteria	16 h	Pseudomonas fluorescens	other guideline:
Silica, amorphous, fumed, crystal-free	LC50	> 10,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute
112945-52-5 Silica, amorphous, fumed, crystal-free 112945-52-5	EL50	> 1,000 mg/l	Daphnia	24 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation
Silica, amorphous, fumed, crystal-free	NOELR	10,000 mg/l	Algae	72 h	Desmodesmus subspicatus	Test) OECD Guideline 201 (Alga, Growt
112945-52-5 Silica, amorphous, fumed, crystal-free	EL50	> 10,000 mg/l	Algae	72 h	Desmodesmus subspicatus	Inhibition Test) OECD Guideline 201 (Alga, Growt
112945-52-5 Silica, amorphous, fumed, crystal-free	EC0	10,000 mg/l	Bacteria	30 min	Pseudomonas putida	Inhibition Test) DIN 38412, part 2 (Bacterial oxyger
112945-52-5 3-[2- (Methacryloyloxy)ethoxycarb onyl]propionic acid 20882-04-6	EC50	> 515.4 mg/l	Daphnia	48 h	Daphnia magna	consumption test OECD Guideline 202 (Daphnia sp. Acute Immobilisation
3-[2- (Methacryloyloxy)ethoxycarb onyl]propionic acid	EC50	> 312 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	Test) OECD Guideline 201 (Alga, Growt Inhibition Test)
20882-04-6 3-[2- (Methacryloyloxy)ethoxycarb onyl]propionic acid	NOEC	21.1 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growt Inhibition Test)
20882-04-6 Limonene D 5989-27-5	LC50	0.702 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute
Limonene D 5989-27-5	LC10	0.32 mg/l	Fish	8 d	Pimephales promelas	Toxicity Test) OECD Guideline 212 (Fish, Short- term Toxicity Tess on Embryo and
Limonene D 5989-27-5	EC50	0.577 mg/l	Daphnia	48 h	Daphnia magna	Sac-Fry Stages) OECD Guideline 202 (Daphnia sp.

SDS No.: 544621 V001.1

LOCTITE 518 GASKET ELIMINATOR TT50MLAU

							Acute
							Immobilisation
							Test)
Limonene D		EC50	0.32 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline
5989-2	7-5			-		_	201 (Alga, Growth
							Inhibition Test)
Limonene D		EC10	0.174 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline
5989-2	7-5			-		_	201 (Alga, Growth
							Inhibition Test)
Limonene D		EC10	18 mg/l	Bacteria	3 h	activated sludge of a	OECD Guideline
5989-2	7-5		-			predominantly domestic sewage	209 (Activated
							Sludge, Respiration
							Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	not readily biodegradable.	aerobic	16.8 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
2-Hydroxyethyl methacrylate 868-77-9	readily biodegradable	aerobic	92 - 100 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
3-[2- (Methacryloyloxy)ethoxycarb onyl]propionic acid 20882-04-6	readily biodegradable, but failing 10-day window	aerobic	80 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Limonene D 5989-27-5	readily biodegradable	aerobic	71.4 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	5.25				20 °C	OECD Guideline 117 (Partition Coefficient (n- octanol / water), HPLC Method)
2-Hydroxyethyl methacrylate 868-77-9	0.42				25 °C	OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)
Silica, amorphous, fumed, crystal-free 112945-52-5	0.53					QSAR (Quantitative Structure Activity Relationship)
3-[2- (Methacryloyloxy)ethoxycarb onyl]propionic acid 20882-04-6	0.783				23 °C	EU Method A.8 (Partition Coefficient)
Acetic acid, 2- phenylhydrazide 114-83-0	0.74					not specified
Limonene D 5989-27-5	4.57					not specified

Section 13. Disposal considerations

Waste disposal of product:

Waste incineration or disposal with the approval of the responsible local authority.

Disposal for uncleaned package:

Collection and delivery to recycling enterprise or other registered elimination institution.

Section 14. Transport 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 15. Regulatory information
None
Section 16. Other information
ADGC - Australian Dangerous Goods Code IMDG: International Maritime Dangerous Goods code IATA-DGR: International Air Transport Association – Dangerous Goods Regulations STEL - Short term exposure limit TWA - Time weighted average AIIC - Australian Inventory of Industrial Chemicals (AIIC) AICIS - Australian Industrial Chemicals Introduction Scheme
Reviewed SDS. Reissued with new date. involved chapters: 1-16
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. The information contained in the Safety Data Sheet is offered in good faith and has been developed from what is believed to be accurate and reliable sources. The information is offered without warranty, representation, inducement or licence and Henkel Australia Pty. Limited disclaims any liability for loss, injury or damage incurred in connection with the use of the material or its associated Safety Data Sheet. This information is not to be construed as a representation that the material is suitable fo any particular purpose or use except those conditions and warranties implied by either Commonwealth or State statutes. Customers are encouraged to make their own enquiries as to the material's intended use. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information

additional assistance.