

Safety Data Sheet

LOCTITE 518 IND 300ML AU

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SDS No.: 544621

V001.1

Date of issue: 15.10.2021

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

LOCTITE 518 IND 300ML AU **Product name:**

Supplier:

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

+61 (3) 9724 6444 Phone:

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	<u>Hazard Category</u>	<u>Target organ</u>
Skin irritation	Category 2	

Serious eye irritation Category 2A Skin sensitizer Category 1 Target Organ Systemic Toxicant -Category 3

Single exposure Category 3

Acute hazards to the aquatic

environment

Chronic hazards to the aquatic

environment

respiratory tract irritation

Hazard pictogram:



Category 3

Signal word: Warning

LOCTITE 518 IND 300ML AU

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

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National exposure standards:

In gredient [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	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 butylrubber 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: $> 100 \,^{\circ}\text{C} \, (> 212 \,^{\circ}\text{F})$

(no method)

Density: 1.1 g/cm3 **Solubility in water:** Not miscible

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Excessive heat.

Incompatible materials: Oxidizing agents.

Aldehydes. Reducing agents.

Reaction with strong acids.

Hazardous decomposition

products:

Thermal decomposition can lead to release of irritating gases and vapors.

Carbon monoxide. Carbon dioxide.

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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 CAS-No.	Value	Value	Route of application	Exposure time	Species	Method
3,3,5 Trimethylcyclohexyl	LD0	> 5 000 mg/lsg	oral	time	rat	OECD Guideline 401 (Acute
	-	> 5,000 mg/kg				`
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	$> 2,000 \mathrm{mg/kg}$	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	LD30	270 mg/kg	orai		Tat	not specified
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 > 5,000 mg/kg	Orai		rabbit	Guideline 401 (Acute Oral
3707-21-3	LDJU	/ J,000 mg/kg	dermal		1 40011	Toxicity)
			dermai			
						equivalent or similar to OECD
						Guideline 402 (Acute Dermal
						Toxicity)

Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No. Silica, amorphous, fumed, crystal-free 112945-52-5	not irritating	time	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	
3-[2- (Methacryloyloxy)ethoxy carbonyl]propionic acid 20882-04-6	Not Classified	4 h	Human, EPISKIIN TM 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)

$S\,erious\,eye\,damage/irritation:$

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2-Hydroxyethyl met hacry late 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 met hacry late 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 T oxicology: 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)
LimoneneD 5989-27-5	negative	oral: gavage		rat	not specified

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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 met hacry late 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
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	EC10	0.43 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	Immobilisation Test) OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Hydroxyethyl methacrylate 868-77-9	LC50	> 100 mg/l	Fish	96 h	Oryzias latipes	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, Growth 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, Growth
112945-52-5 Silica, amorphous, fumed, crystal-free	EL50	> 10,000 mg/l	Algae	72 h	Desmodesmus subspicatus	Inhibition Test) OECD Guideline 201 (Alga, Growth
112945-52-5 Silica, amorphous, fumed, crystal-free	EC0	10,000 mg/l	Bacteria	30 min	Pseudomonas putida	Inhibition Test) DIN 38412, part 27 (Bacterial oxygen
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)
20882-04-6 3-[2- (Methacryloyloxy)ethoxycarb onyl]propionic acid	NOEC	21.1 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
20882-04-6 LimoneneD 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 Test 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.

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						Acute
						Immobilisation
						Test)
LimoneneD	EC50	0.32 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline
5989-27-5			_		_	201 (Alga, Growth
						Inhibition Test)
LimoneneD	EC10	0.174 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline
5989-27-5						201 (Alga, Growth
						Inhibition Test)
Limonene D	EC10	18 mg/l	Bacteria	3 h	activated sludge of a	OECD Guideline
5989-27-5					predominantly domestic sewage	209 (Activated
						Sludge, Respiration
						Inhibition Test)

$\label{persistence} \textbf{Persistence and degradability:}$

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

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

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

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

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

Disclaimer:

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