

Safety Data Sheet

LOCTITE 638 RETAIN CMPND 50ML

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SDS No.: 450822

V001.3

Date of issue: 02.09.2020

respiratory tract irritation

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

Product name: LOCTITE 638 RETAIN CMPND 50ML

Intended use: Anaerobic Adhesive

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	
G · 1 / · · · ·	0 . 1	

Serious eye damage/eye irritation Category 1 Skin sensitizer Category 1 Target Organ Systemic Toxicant -Category 3

Single exposure

Acute hazards to the aquatic environment

Chronic hazards to the aquatic

environment

Category 2

Category 3

Hazard pictogram:



Signal word: Danger

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Hazard statement(s): H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation.

H401 Toxic to aquatic life.

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+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical

advice/attention.

P333+P313 If skin irritation or rash occurs: 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
Acrylate
Type of preparation: Adhesive

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
3,3,5 Trimethylcyclohexyl methacrylate	7779-31-9	10- < 20 %
2-Hydroxyethyl methacrylate	868-77-9	10- < 30 %
Acrylic acid	79-10-7	3- < 5 %
Methacrylic acid, monoester with propane-1,2-diol	27813-02-1	1- < 10 %
maleic acid	110-16-7	< 1 %
non hazardous ingredients~		60- < 100 %

Section 4. First aid measures

Ingestion: Do not induce vomiting.

Have victim rinse mouth thoroughly with water.

Seek medical advice.

Skin: In case of contact, immediately remove contaminated clothing and flush skin with copious

> amounts of water. Seek medical advice.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Eyes:

Get immediate medical attention.

Move to fresh air. Inhalation:

Keep warm and in a quiet place.

Seek medical advice.

First Aid facilities: Eye wash and safety shower

Normal washroom facilities

Medical attention and special

treatment:

Treat symptomatically and supportively.

Section 5. Fire fighting measures

Suitable extinguishing media: Carbon dioxide, foam, powder

Decomposition products in case of

fire:

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

Carbon monoxide. Carbon dioxide. Oxides of nitrogen.

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: Avoid contact with skin and eyes.

Wear protective equipment. Ensure adequate ventilation. Remove sources of ignition.

Environmental precautions: Do not empty into drains / surface water / ground water.

Clean-up methods: For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for

disposal.

Section 7. Handling and storage

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

Remove all sources of ignition. Avoid skin and eye contact. Wear protective equipment.

Ensure good ventilation/extraction. Conditions for safe storage:

Keep container tightly sealed. Store in a cool, well-ventilated place. Keep away from sources of ignition.

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)
ACRYLIC ACID		2	5.9				
79-10-7							

Engineering controls: Ensure good ventilation/extraction.

Eye protection: Wear chemical goggles and face shield.

Skin protection: Wear suitable protective clothing.

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: green liquid

Odor: characteristic

Specific gravity: 1.1

Boiling point: > 149 °C (> 300.2 °F) **Flash point:** 93.3 °C (199.94 °F) **Vapor pressure:** < 10 mm hg

(; 27 °C (80.6 °F))

Density: 1.1 g/cm3 Solubility in water: Insoluble

Viscosity (dynamic): 2,000 - 3,000 mPa.s

(Brookfield; Instrument: RVT; speed of rotation: 20 min-1; Spindle No: 3; Method: no

method)

VOC content: < 3 %

(2010/75/EC)

Section 10. Stability and reactivity

Stability: Stable under recommended storage conditions.

Conditions to avoid: Excessive heat.

Heat, flames, sparks and other sources of ignition.

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Incompatible materials: Reaction with strong acids.

Reacts with strong oxidants.

Hazardous decomposition

products:

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

Carbon monoxide. Carbon dioxide. Oxides of nitrogen. Oxides of sulfur.

Section 11. Toxicological information

Health Effects:

Ingestion: May cause gastrointestinal tract irritation if swallowed.

Skin: Irritating to skin.

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 vapor or aerosol may cause severe irritation to nose, throat and lungs.

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			
Acrylic acid	LD50	1,500 mg/kg	oral		rat	BASF Test
79-10-7	LC50	> 5.1 mg/l	inhalation	4 h	rat	OECD Guideline 403 (Acute
	Acute	11 mg/l	inhalation			Inhalation Toxicity)
	toxicity	1,100 mg/kg	dermal			Expert judgement
	estimate					Expert judgement
	(ATE)					
	Acute					
	toxicity					
	estimate					
	(ATE)					
Methacrylic acid,	LD50	> 2,000 mg/kg	oral		rat	OECD Guideline 401 (Acute
monoester with propane-	LD50	> 5,000 mg/kg			rabbit	Oral Toxicity)
1,2-diol			dermal			not specified
27813-02-1						
maleic acid	LD50	708 mg/kg	oral		rat	not specified
110-16-7	LD50	1,560 mg/kg			rabbit	not specified
			dermal			

Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Acrylic acid 79-10-7	highly corrosive	3 min	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Methacrylic acid, monoester with propane- 1,2-diol 27813-02-1	not irritating	24 h	rabbit	Draize Test
maleic acid 110-16-7	irritating	24 h	human	Patch Test

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2-Hydroxyethyl methacrylate 868-77-9	irritating		rabbit	Draize Test
Acrylic acid 79-10-7	corrosive	21 d	rabbit	BASF Test
Methacrylic acid, monoester with propane- 1,2-diol 27813-02-1	irritating		rabbit	Draize Test
maleic acid 110-16-7	highly 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)
Acrylic acid 79-10-7	not sensitising	Skin painting test	guinea pig	not specified
maleic acid 110-16-7	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
maleic acid 110-16-7	sensitising	Mouse local lymphnod e assay (LLNA)	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
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)
Acrylic acid 79-10-7	negative negative	mammalian cell gene mutation assay DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	with and without without		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)
Acrylic acid 79-10-7	negative	oral: gavage		rat	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Methacrylic acid, monoester with propane- 1,2-diol 27813-02-1	negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Methacrylic acid, monoester with propane- 1,2-diol 27813-02-1	negative	oral: gavage		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
maleic acid 110-16-7	negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	no data with and without		Ames Test OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

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)
Methacrylic acid, monoester with propane- 1,2-diol 27813-02-1	NOAEL=300 mg/kg	oral: gavage		rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
maleic acid 110-16-7	NOAEL=>= 40 mg/kg	oral: feed	90 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Ecotoxicity: Toxic to aquatic life., Harmful to aquatic life with long lasting effects.

Toxicity:

Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity Study	time		
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	LC50	1.9 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	EC50	14.43 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
	FG10	0.40		50.1		Immobilisation Test)
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	EC10	0.43 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	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
	EGG	026 /1	A 1	70.1		Test)
2-Hydroxyethyl methacrylate 868-77-9	EC50	836 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	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 201 (Alga, Growth Inhibition Test)
2-Hydroxyethyl methacrylate 868-77-9	EC0	> 3,000 mg/l	Bacteria	16 h	Pseudomonas fluorescens	other guideline:
Acrylic acid 79-10-7	LC50	27 mg/l	Fish	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	EPA OTS 797.1400 (Fish Acute Toxicity
Acrylic acid 79-10-7	EC50	95 mg/l	Daphnia	48 h	Daphnia magna	Test) EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)
Acrylic acid 79-10-7	EC10	0.03 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	EU Method C.3 (Algal Inhibition test)
Acrylic acid 79-10-7	EC50	0.13 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus	EU Method C.3 (Algal Inhibition
Acrylic acid 79-10-7	EC20	900 mg/l	Bacteria	30 min	subspicatus) activated sludge, domestic	test) ISO 8192 (Test for Inhibition of Oxygen
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	LC50	493 mg/l	Fish	48 h	Leuciscus idus melanotus	Consumption by Activated Sludge) DIN 38412-15
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	EC50	> 143 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	EC50	> 97.2 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	Test) OECD Guideline 201 (Alga, Growth Inhibition Test)
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	NOEC	> 97.2 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	EC10	1,140 mg/l	Bacteria	16 h		not specified
maleic acid 110-16-7	LC50	> 245 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15

maleic acid	EC50	42.81 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
110-16-7						202 (Daphnia sp.
						Acute
						Immobilisation
						Test)
maleic acid	EC50	74.35 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline
110-16-7						201 (Alga, Growth
						Inhibition Test)
maleic acid	EC10	11.8 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline
110-16-7						201 (Alga, Growth
						Inhibition Test)
maleic acid	EC10	44.6 mg/l	Bacteria	18 h	Pseudomonas putida	DIN 38412, part 8
110-16-7					_	(Pseudomonas
						Zellvermehrungshe
						mm-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))
Acrylic acid 79-10-7	inherently biodegradable	aerobic	100 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
Acrylic acid 79-10-7	readily biodegradable	aerobic	81 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	readily biodegradable	aerobic	94.2 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
maleic acid 110-16-7	readily biodegradable	aerobic	97.08 %	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)
Acrylic acid		3.16				QSAR (Quantitative
79-10-7						Structure Activity
						Relationship)
Acrylic acid	0.46				25 °C	OECD Guideline 107
79-10-7						(Partition Coefficient (n-
						octanol / water), Shake
						Flask Method)
Methacrylic acid, monoester	0.97				20 °C	not specified
with propane-1,2-diol						
27813-02-1						
maleic acid	-1.3				20 °C	OECD Guideline 107
110-16-7						(Partition Coefficient (n-
						octanol / water), Shake
						Flask Method)

Section 13. Disposal considerations

Waste disposal of product:

Collection and delivery to recycling enterprise or other registered elimination institution. Dispose of according to Federal, State and local governmental regulations.

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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.

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

GHS: Globally Harmonized System CAS: Chemical Abstracts Service STEL - Short term exposure limit TWA - Time weighted average

OECD: Organization for Economic Cooperation and Development

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 SDS. Reissued with new date. involved chapters: 2,3,9,12,15,16

V001.3

Date of previous issue:

14.09.2015

Disclaimer:

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