

Safety Data Sheet

LOCTITE 243

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SDS No.: 316211

V001.6

Date of issue: 19.04.2022

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

Product name: LOCTITE 243

Intended use: Threadlocker

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> <u>Target organ</u>

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

Target Organ Systemic Toxicant - Category 3 respiratory tract irritation

Single exposure

Hazard pictogram:



Signal word: Warning

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Hazard statement(s): H315 Causes skin irritation.

> H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary Statement(s):

Prevention: P261 Avoid breathing mist/vapours.

> 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.

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+P364 Take off contaminated clothing and wash it before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to an appropriate treatment and disposal facility in Disposal:

accordance with applicable laws and regulations.

Dangerous Goods information:

Storage:

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: M ixture

Type of preparation: Methacry late resin based threadlocker

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Tetramethylene dimethacrylate	2082-81-7	20-< 30 %
2,4,6-Triallyloxy-1,3,5-triazine	101-37-1	< 10 %
Silane, dichlorodimethyl-, reaction products with	68611-44-9	< 10 %
silica		
Ethene, homopolymer	9002-88-4	< 10 %
Propane-1,2-diol	57-55-6	< 10 %
α, α-dimethylbenzyl hydroperoxide	80-15-9	< 1 %
maleic acid	110-16-7	0.1-< 1 %
Acetic acid, 2-phenylhydrazide	114-83-0	< 1 %
non hazardous ingredients~		30-<= 60 %

Section 4. First aid measures

Ingestion: Rinse mouth, do not induce vomiting, consult a doctor.

Skin: Rinse with running water and soap.

Seek medical advice.

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

necessary.

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Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

First Aid facilities: Eye wash

Normal washroom facilities Medical attention and special Treat symptomatically.

treatment:

Section 5. Fire fighting measures

Suitable extinguishing media: If product is involved in fire extinguish with dry powder, foam or carbon dioxide.

fire:

Decomposition products in case of In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides

(NOx) can be released. Irritating organic vapours.

Particular danger in case of fire: None

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 skin and eye contact.

Ensure adequate ventilation.

Environmental precautions: Do not let product enter drains.

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.

Avoid skin and eye contact.

Conditions for safe storage: Store in a cool, well-ventilated place.

> Do not expose to direct heat. Store in sealed original container.

Section 8. Exposure controls / personal protection

National exposure standards:

In gre dient [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 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				

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NUISANCE DUST S, INHALABLE DUST 9002-88-4	Inhalable dust.		10		
PROPANE-1,2-DIOL TOTAL: (VAPOUR & PARTICULATES) 57-55-6	Total vapour and particulates.	150	474		
PROPANE-1,2-DIOL: PARTICULATES ONLY 57-55-6	Particulate.		10		

Engineering controls: Ensure good ventilation/suction at the workplace.

Eye protection: Wear protective glasses.

Skin protection: Wear suitable protective clothing.

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.

The use of chemical resistant gloves such as Neoprene or Natural Rubber is recommended

Respiratory protection: Use only in well-ventilated areas.

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

LiquidBlue Liquid

Odor: CharacteristicCharacteristic

pH: Not applicable, Product reacts with water.

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

Density: 1.09 g/cm³

VOC content (2004/42/EC) 0.0 % (VOCV 814.018 VOC regulation CH)

Section 10. Stability and reactivity

Conditions to avoid: Keep away from heat, spark and flame.

Incompatible materials: Strong acids and oxidizing agents.

Oxygen scavengers. Strong alkalis. Reducing agents.

 $Other\ poly\ merization\ initiators.$

Hazardous decomposition

products:

In case of fire toxic gases can be released.

Irritating vapors. Oxides of carbon.

Hazardous polymerization: Will not occur.

Section 11. Toxicological information

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Health Effects:

Ingestion: May be harmful if swallowed. Skin: Causes skin irritation.

May cause skin sensitization. Eyes: Causes serious eye irritation.

Inhalation: May cause respiratory tract irritation.

Aggravated med.

condition:

Eye, skin, and respiratory disorders.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Tetramethylene dimethacrylate 2082-81-7	LD50 LD50	10,066 mg/kg > 3,000 mg/kg	oral dermal		rat rabbit	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) not specified
2,4,6-Triallyloxy-1,3,5- triazine 101-37-1	LD50 LD50	753 mg/kg > 2,000 mg/kg	oral dermal		rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	LD50 LD50	> 5,000 mg/kg > 2,000 mg/kg	oral dermal		rat rat	not specified not specified
Ethene, homopolymer 9002-88-4	Acute toxicity estimate (ATE) Acute toxicity estimate (ATE) Acute toxicity estimate (ATE)	> 5,000 mg/kg > 5 mg/l > 5,000 mg/kg	oral inhalation dermal			Expert judgement Expert judgement Expert judgement
Propane-1,2-diol 57-55-6	LD50 LC50 LD50	22,000 mg/kg > 317.042 mg/l > 2,000 mg/kg	oral inhalation dermal	2 h	rat rabbit rabbit	not specified not specified not specified
α, α-dimethylbenzyl hydroperoxide 80-15-9	LD50 LC50 Acute toxicity estimate (ATE)	382 mg/kg 1.370 mg/l 1,100 mg/kg	oral inhalation dermal	4 h	rat rat	other guideline: not specified Expert judgement
maleic acid 110-16-7	LD50 LD50	708 mg/kg 1,560 mg/kg	oral dermal		rat rabbit	not specified not specified
Acetic acid, 2- phenylhydrazide 114-83-0	LD50	270 mg/kg	oral		rat	not specified

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	not irritating	4 h	rabbit	not specified
Propane-1,2-diol 57-55-6	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
α, α-dimet hylbenzyl hydroperoxide 80-15-9	corrosive		rabbit	Draize Test
maleic acid 110-16-7	irritating	24 h	human	Patch Test

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Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	not irritating		rabbit	not specified
Ethene, homopolymer 9002-88-4	not irritating	24 h	rabbit	FDA Guideline
Propane-1,2-diol 57-55-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
maleic acid 110-16-7	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

${\bf Respiratory\ or\ skin\ sensitization:}$

Hazardous components CAS-No.	Result	Test type	Species	Method
Tetramethylene dimethacrylate 2082-81-7	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	not sensitising	Patch-Test	human	human repeat insult patch test
Ethene, homopolymer 9002-88-4	not sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Propane-1,2-diol 57-55-6	not sensitising	Guinea pig maximisat ion test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
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)

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Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study/ Route of administration	Metabolic activation / Exposure time	Species	Method
Tetramethylene dimethacrylate 2082-81-7	negative negative positive	in vitro mammalian chromosome aberration test bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration 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
Ethene, homopolymer 9002-88-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
Propane-1,2-diol 57-55-6	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	without with and without		Ames Test OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Propane-1,2-diol 57-55-6	negative negative negative	oral: gavage intraperitoneal oral: gavage		rat mouse rat	not specified not specified not specified
α, α-dimet hylbenzyl hydroperoxide 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
α, α-dimethylbenzyl hydroperoxide 80-15-9	negative	dermal		mouse	not specified
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
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	NOAEL=500 mg/kg	oral: feed	5-8 wdaily	rat	not specified
Propane-1,2-diol 57-55-6	NOAEL=1,700 mg/kg	oral: feed	2 yearsdaily	rat	not specified
Propane-1,2-diol 57-55-6	NOAEL=1000 mg/m3	inhalation	90 d6 h/d, 5 d/w	rat	not specified
α, α-dimethylbenzyl hydroperoxide 80-15-9		inhalation: aerosol	6 h/d5 d/w	rat	not specified
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

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General ecological information: Do not empty into drains, soil or bodies of water.

Toxicity:

Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity Study	time		
Tetramethylene	LC50	32.5 mg/l	Fish	48 h		DIN 38412-15
dimethacrylate						
2082-81-7 Tetramethylene	EC50	9.79 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline
dimethacrylate		<i>8</i>	8			201 (Alga, Growth
2082-81-7 Tetramethylene	NOEC	2.11 mg/l	Algae	72 h	Desmodesmus subspicatus	Inhibition Test) OECD Guideline
dimethacrylate	NOLC	2.11 mg/1	riigae	7211	Desiriodesirius suospieut us	201 (Alga, Growth
2082-81-7 Tetramethylene	NOEC	20 mg/l	Bacteria	28 d	activated sludge, domestic	Inhibition Test) not specified
dimethacrylate	NOEC	20 mg i	Bacteria	28 U	activated studge, domestic	not specified
2082-81-7	1.050	4.26	F: 1	0.61	0 1	OEGD G : 1-1:
2,4,6-Triallyloxy-1,3,5-triazine	LC50	4.36 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute
101-37-1						Toxicity Test)
2,4,6-Triallyloxy-1,3,5-triazine	EC50	19.4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp.
101-37-1						Acute
						Immobilisation Test)
2,4,6-Triallyloxy-1,3,5-	EC0	5 mg/l	Bacteria	3 h		OECD Guideline
triazine 101-37-1						209 (Activated Sludge, Respiration
]						Inhibition Test)
Silane, dichlorodimethyl-, reaction products with silica	LC50	$> 10,000\mathrm{mg/l}$	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute
68611-44-9					Damo terio)	Toxicity Test)
Silane, dichlorodimethyl-,	EC50	$> 10,000\mathrm{mg/l}$	Daphnia	24 h	Daphnia magna	OECD Guideline
reaction products with silica 68611-44-9						202 (Daphnia sp. Acute
						Immobilisation
Silane, dichlorodimethyl-,	EC50	$> 10,000 \mathrm{mg/l}$	Algae			Test) OECD Guideline
reaction products with silica		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	8			201 (Alga, Growth
68611-44-9 Ethene, homopolymer	LC50	> 100 mg/l	Fish	96 h	Leuciscus idus	Inhibition Test) OECD Guideline
9002-88-4	2000	, 100 mg1	1 1011	, , , ,	Dedelige as radis	203 (Fish, Acute
Ethene, homopolymer	EC0	> 1,000 mg/l	Bacteria	3 h	not specified	Toxicity Test) OECD Guideline
9002-88-4	Leo	> 1,000 mg1	Bacteria	3 11	not specified	209 (Activated
						Sludge, Respiration Inhibition Test)
Propane-1,2-diol	LC50	51,600 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline
57-55-6						203 (Fish, Acute Toxicity Test)
Propane-1,2-diol	EC50	18,340 mg/l	Daphnia	48 h	Ceriodaphnia dubia	other guideline:
57-55-6					_	
Propane-1,2-diol 57-55-6	EC50	24,200 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth
						Inhibition Test)
Propane-1,2-diol 57-55-6	NOEC	15,000 mg/l	Algae	14 d	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth
						Inhibition Test)
Propane-1,2-diol 57-55-6	EC50	> 1,000 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated
37-33-0						Sludge, Respiration
α, α-dimethylbenzyl	LC50	3.9 mg/l	Fish	96 h	Oncorhynchus mykiss	Inhibition Test) OECD Guideline
hydroperoxide	LCSU	3.7 mg1	1.1811	7011	Oncornyncius mykiss	203 (Fish, Acute
80-15-9	ECSO	10.04 7	Dan to the	401	Danhait	Toxicity Test)
α, α-dimethylbenzyl hydroperoxide	EC50	18.84 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp.
80-15-9						Acute
						Immobilisation Test)
α, α-dimethylbenzyl	EC50	3.1 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline
hydroperoxide	1		1	l	(reported as Scenedesmus	201 (Alga, Growth

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80-15-9 α, α-dimethylbenzyl hydroperoxide	NOEC	1 mg/l	Algae	72 h	· 1	Inhibition Test) OECD Guideline 201 (Alga, Growth
80-15-9 α, α-dimethylbenzyl hydroperoxide 80-15-9	EC10	70 mg/l	Bacteria	30 min	subspicatus)	Inhibition Test) not specified
maleic acid	LC50	> 245 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
maleic acid 110-16-7	EC50	42.81 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
maleic acid 110-16-7	EC50	74.35 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	,
maleic acid 110-16-7	EC10	11.8 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
maleic acid 110-16-7	EC10	44.6 mg/l	Bacteria	18 h	•	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)

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

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Tetramethylene dimethacrylate 2082-81-7	readily biodegradable	aerobic	84 %	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
2,4,6-Triallyloxy-1,3,5- triazine 101-37-1		aerobic	7 - 9 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	not readily biodegradable.	not specified	> 0 - < 60 %	OECD 301 A - F
Ethene, homopolymer 9002-88-4	not readily biodegradable.	aerobic	1 %	ISO 10708 (BODIS-Test)
Propane-1,2-diol 57-55-6	readily biodegradable	aerobic	> 81.7 - 100 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
α , α -dimethylbenzyl hydroperoxide $80-15-9$	not readily biodegradable.	aerobic	3 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
maleic acid 110-16-7	readily biodegradable	aerobic	97.08 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

${\bf Bioaccumulative\ potential\ /\ Mobility\ in\ soil:}$

Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			

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Tetramethylene dimethacrylate 2082-81-7	3.1				OECD Guideline 117 (Partition Coefficient (noctanol/water), HPLC Method)
2,4,6-Triallyloxy-1,3,5- triazine 101-37-1	2.8			20 °C	not specified
Propane-1,2-diol 57-55-6	-1.07			20.5 °C	EU Method A.8 (Partition Coefficient)
α, α-dimethylbenzyl hydroperoxide 80-15-9		9.1	calculation		OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	1.6			25 °C	OECD Guideline 117 (Partition Coefficient (noctanol / water), HPLC Method)
maleic acid 110-16-7	-1.3			20 °C	OECD Guideline 107 (Partition Coefficient (noctanol/water), Shake Flask Method)
Acetic acid, 2- phenylhydrazide 114-83-0	0.74				not specified

Section 13. Disposal considerations

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

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:

Not classified as Dangerous Goods according to the criteria of the Dangerous Goods information:

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 SDS No.: 316211 Page 11 of 11 **LOCTITE 243**

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Section 16. Other information

ASCC - Australian Safety and Compensation Council Abbreviations/acronyms:

SUSMP - Standard for the Uniform Medicines of Medicines and Poisons

GHS: Globally Harmonized System CAS: Chemical Abstracts Service TWA - Time weighted average LD 50: Lethal Dose 50%

OECD: Organization for Economic Cooperation and Development

NOAEL: No Observed Adverse Effect Level

LC 50: Lethal Concentration 50%

IMDG: International Maritime Dangerous Goods code

IATA-DGR: International Air Transport Association - Dangerous Goods Regulations

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

Date of previous issue: 15.05.2020

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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Safety Data Sheet

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V001.4

Date of issue: 09.12.2021

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

Product name: LOCTITE 268 19G STIK WIP EN/FR

Intended use: Anaerobic thread 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:

Hazard ClassHazard CategorySkin sensitizerCategory 1

Hazard pictogram:



Signal word: Warning

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

Precautionary Statement(s):

Prevention: P261 Avoid breathing dust.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

Response: P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

Disposal: P501 Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations.

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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
Thixatrol plus		10- < 30 %
Silica, amorphous, fumed, crystal-free	112945-52-5	< 10 %
Ethene, homopolymer	9002-88-4	< 10 %
α, α-dimethylbenzyl hydroperoxide	80-15-9	< 1 %
N,N-Diethyl-p-toluidine	613-48-9	< 10 %
N-methyl-2-pyrrolidone	872-50-4	< 0.3 %
N,N-dimethyl-o-toluidine	609-72-3	< 10 %

Section 4. First aid measures

Ingestion: Do not induce vomiting.

Have victim rinse mouth thoroughly with water.

Seek medical advice.

Skin: Rinse with running water and soap.

Seek medical advice.

Eyes: Wash with plenty of water immediately and continue for several minutes, holding eyelid

open. Consult a doctor.

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

First Aid facilities: Normal washroom facilities

Eye wash

Medical attention and special

treatment:

Treat symptomatically and supportively.

Section 5. Fire fighting measures

Suitable extinguishing media: Carbon dioxide, foam, powder

Fine water spray

Improper extinguishing media: None known

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Decomposition products in case of Thermal decomposition may release toxic and/or hazardous gases.

fire:

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

Particular danger in case of fire: In case of fire, keep containers cool with water spray.

Special protective equipment for

fire-fighters:

Wear full protective clothing.

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

Section 6. Accidental release measures

Personal precautions: Avoid skin and eye contact.

Ensure adequate ventilation. Wear protective equipment.

Environmental precautions: Waste disposal with the approval of the responsible local authority.

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.

Avoid skin and eye contact.

Gloves and safety glasses should be worn

Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

Conditions for safe storage: Ensure good ventilation/extraction.

Store in a cool, well-ventilated place.

Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to

containers as contamination may reduce the shelf life of the bulk product.

Unsuitable materials with

product:

plastic

Section 8. Exposure controls / personal protection

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)
CUMENE 98-82-8						75	375
CUMENE 98-82-8		25	125				
NUISANCE DUST S, INHALABLE DUST 9002-88-4	Inhalable dust.		10				
1-METHYL-2-PYRROLIDONE 872-50-4						75	309
1-METHYL-2-PYRROLIDONE 872-50-4		25	103				

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Engineering controls: No specific ventilation requirements noted, but forced ventilation may still be required if

concentrations exceed occupational exposure limits.

Eye protection: Wear protective glasses.

Skin protection: Wear suitable protective clothing.

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: red wax Odor: mild

Specific gravity: 1.0687 **Boiling point:** > 149 °C (> 300.2 °F)

Vapor pressure: < 6.67 mbar

(; 20 °C (68 °F))

Density: 1.07 g/cm3 Solubility in water: Insoluble **VOC** content: < 3 %

(2010/75/EC)

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Keep away from heat, ignition sources and incompatible materials.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition

products:

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

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

Hazardous polymerization: None under normal processing. Polymerization may occur at elevated temperature or in

the presence of incompatible materials.

Hazardous polymerization: Will not occur.

Section 11. Toxicological information

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Health Effects:

Ingestion: May cause gastrointestinal disturbances such as headache nausea, vomiting, abdominal pain, and

diarrhea, with delayed effects of skin redness and peeling.

Skin: May cause an allergic skin reaction.

May cause mild skin irritation.
Can cause moderate eye irritation.

Eyes: Can cause moderate eye irritation. **Inhalation:** May cause respiratory tract irritation.

Inhalation of product mist may cause mucous membrane irritation.

Chronic effects:

N-methyl-2-pyrrolidone Damage to the skin, irritation to the mucous membranes.

872-50-4:

Acute toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type	2.000 //	application	time		
Thix atrol plus	LD50	> 2,000 mg/kg	oral		rat	not specified
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)
Ethene, homopolymer	Acute	> 5,000 mg/kg	oral			Expert judgement
9002-88-4	toxicity	> 5 mg/l	inhalation			Expert judgement
	estimate	> 5,000 mg/kg	dermal			Expert judgement
	(ATE)					
	Acute					
	toxicity estimate					
	(ATE)					
	Acute					
	toxicity					
	estimate					
	(ATE)					
α, α-dimethylbenzyl	LD50	382 mg/kg	oral		rat	other guideline:
hydroperoxide	LC50	1.370 mg/l	inhalation	4 h	rat	not specified
80-15-9	Acute	1,100 mg/kg	dermal			Expert judgement
	toxicity					
	estimate					
	(ATE)					
N-methyl-2-pyrrolidone	LD50	4,150 mg/kg	oral		rat	OECD Guideline 401 (Acute
872-50-4	LC50	> 5.1 mg/l	inhalation	4 h	rat	Oral Toxicity)
	LD50	> 5,000 mg/kg	dermal		rat	OECD Guideline 403 (Acute
						Inhalation Toxicity)
						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)
α, α-dimethylbenzyl hydroperoxide 80-15-9	corrosive		rabbit	Draize Test
N-methyl-2-pyrrolidone 872-50-4	irritating	24 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
N-methyl-2-pyrrolidone 872-50-4	moderately irritating		human	not specified

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Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Silica, amorphous, fumed, crystal-free 112945-52-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation/Corrosion)
Ethene, homopolymer 9002-88-4	not irritating	24 h	rabbit	FDA Guideline
N-methyl-2-pyrrolidone 872-50-4	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Ethene, homopolymer 9002-88-4	not sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
N-methyl-2-pyrrolidone 872-50-4	not sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

Hazardous components	Result	Type of study/	Metabolic	Species	Method
CAS-No.		Route of	activation/		
		administration	Exposure time		
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)
Ethene, homopolymer 9002-88-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
α, α-dimethylbenzyl hydroperoxide 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
α, α-dimethylbenzyl hydroperoxide 80-15-9	negative	dermal		mouse	not specified
N-methyl-2-pyrrolidone 872-50-4	negative negative negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	without with and without with and without		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
N-methyl-2-pyrrolidone 872-50-4	negative negative	oral: gavage oral: gavage		mouse hamster, Chinese	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus T est) OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration T est)

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Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
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	
α, α-dimethylbenzyl hydroperoxide 80-15-9		inhalation: aerosol	6 h/d5 d/w	rat	not specified
N-methyl-2-pyrrolidone 872-50-4	NOAEL=0.5 mg/l	inhalation	90 days6 hrs/day, 5 days/wk	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

Section 12. Ecological information

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General ecological information:

Do not empty into drains / surface water / ground water., In the cured state contribution of this product to Environmental Hazards is insignificant in comparison to articles in which it is used.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Thixatrol plus	LC50	> 0.2 mg/l	Fish	96 h	carp	not specified
Thixatrol plus	EL50	15.63 - 250 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
Thixatrol plus Thixatrol plus	EC50	0.005 mg/l 0.003 mg/l	Algae Algae	72 h 72 h	Skeletonema costatum Skeletonema costatum	Immobilisation Test) ISO 10253:2006 (Marine algal growth inhibition test) ISO 10253:2006 (Marine algal
Silica, amorphous, fumed, crystal-free	LC50	> 10,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	growth inhibition test) OECD Guideline 203 (Fish, Acute
112945-52-5 Silica, amorphous, fumed, crystal-free	EL50	> 1,000 mg/l	Daphnia	24 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp.
Silica, amorphous, fumed, crystal-free 112945-52-5	NOELR	10,000 mg/l	Algae	72 h	Desmodesmus subspicatus	Acute Immobilisation Test) OECD Guideline 201 (Alga, Growth Inhibition Test)
Silica, amorphous, fumed, crystal-free 112945-52-5	EL50	> 10,000 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Silica, amorphous, fumed, crystal-free 112945-52-5	EC0	10,000 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
Ethene, homopolymer 9002-88-4	LC50	> 100 mg/l	Fish	96 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Ethene, homopolymer 9002-88-4	EC0	> 1,000 mg/l	Bacteria	3 h	not specified	OECD Guideline 209 (Activated Sludge, Respiration
α, α-dimethylbenzyl hydroperoxide 80-15-9	LC50	3.9 mg/l	Fish	96 h	Oncorhynchus mykiss	Inhibition Test) OECD Guideline 203 (Fish, Acute
α, α-dimethylbenzyl hydroperoxide 80-15-9	EC50	18.84 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute
α, α-dimethylbenzyl hydroperoxide	EC50	3.1 mg/l	Algae	72 h	Desmodesmus subspicatus (reported as Scenedesmus	Immobilisation Test) OECD Guideline 201 (Alga, Growth
80-15-9 α, α-dimethylbenzyl hydroperoxide	NOEC	1 mg/l	Algae	72 h	subspicatus) Desmodesmus subspicatus (reported as Scenedesmus	Inhibition Test) OECD Guideline 201 (Alga, Growth
80-15-9 α, α-dimethylbenzyl hydroperoxide 80-15-9	EC10	70 mg/l	Bacteria	30 min	subspicatus)	Inhibition Test) not specified
N-methyl-2-pyrrolidone 872-50-4	LC50	4,000 mg/l	Fish	96 h	Leuciscus idus	DIN 38412-15
N-methyl-2-pyrrolidone 872-50-4	EC50	4,897 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
N-methyl-2-pyrrolidone	EC50	> 500 mg/l	Algae	72 h	Scenedesmus subspicatus (new	Immobilisation Test) DIN 38412-09

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872-50-4					name: Desmodesmus	
					subspicatus)	
N,N-dimethyl-o-toluidine	LC 50	46 mg/l	Fish	96 h	Fathead minnow (Pimephales	
609-72-3					promelas)	

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Thixatrol plus	not readily biodegradable.	aerobic	69.3 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Ethene, homopolymer 9002-88-4	not readily biodegradable.	aerobic	1 %	ISO 10708 (BODIS-Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	not readily biodegradable.	aerobic	3 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
N-methyl-2-pyrrolidone 872-50-4	inherently biodegradable	aerobic	> 90 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
N-methyl-2-pyrrolidone 872-50-4	readily biodegradable	aerobic	92 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

Bioaccumulative potential / Mobility in soil:

Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
Thixatrol plus	5.4 - 6.6				25 °C	EU Method A.8 (Partition
_						Coefficient)
Silica, amorphous, fumed,	0.53					QSAR (Quantitative
crystal-free						Structure Activity
112945-52-5						Relationship)
α, α-dimethylbenzyl		9.1		calculation		OECD Guideline 305
hydroperoxide						(Bioconcentration: Flow-
80-15-9						through Fish Test)
α, α-dimethylbenzyl	1.6				25 °C	OECD Guideline 117
hydroperoxide						(Partition Coefficient (n-
80-15-9						octanol / water), HPLC
						Method)
N-methyl-2-pyrrolidone	-0.46				25 °C	OECD Guideline 107
872-50-4						(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.

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

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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

ASCC - Australian Safety and Compensation Council

STEL - Short term exposure limit TWA - Time weighted average

AIIC - Australian Inventory of Industrial Chemicals (AIIC) AICIS - Australian Industrial Chemicals Introduction Scheme

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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Safety Data Sheet

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LOCTITE 438 BK INSTANT ADHESIVE known as Loctite 438 25ml AU

SDS No.: 204085 V001.4

Date of issue: 14.04.2020

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

Product name: LOCTITE 438 BK INSTANT ADHESIVE known as Loctite 438 25ml AU

Intended use: 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:

<u>Hazard Class</u> <u>Hazard Category</u> <u>Target organ</u>

Flammable liquids

Skin irritation

Serious eye irritation

Target Organ Systemic Toxicant
Category 4

Category 2

Category 2A

Category 3

Single exposure

respiratory tract irritation

Hazard pictogram:



Signal word: Warning

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V001.4 LOCTITE 438 BK IN Loctite 438 25ml AU

LOCTITE 438 BK INSTANT ADHESIVE known as

Hazard statement(s): H227 Combustible liquid.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary Statement(s):

Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

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.
P280 Weer protective deves (ave protection)

P280 Wear protective gloves/eye 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. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing.

P370+P378 In case of fire: Use water spray (fog), foam, dry chemical or carbon dioxide to

extinguish.

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, and product characteristics at time of

disposal.

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).

Signal word:

HAZARDOUS

Section 3. Composition / information on ingredients

General chemical description: Mixture

Type of preparation: Cy anoacry late Adhesive

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Ethyl 2-cyanoacrylate	7085-85-0	60-<=100 %
phthalicanhydride	85-44-9	< 1 %
Carbon black	1333-86-4	< 1 %
non hazardous ingredients~		< 10 %

Section 4. First aid measures

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LOCTITE 438 BK INSTANT ADHESIVE known as

Loctite 438 25ml AU

Ingestion: Ensure that breathing passages are not obstructed. The product will polymerise

immediately in the mouth making it almost impossible to swallow. Saliva will slowly

separate the solidified product from the mouth (several hours).

Skin: Do not pull bonded skin apart. It may be gently peeled apart using a blunt object such as a

spoon, preferably after soaking in warm soapy water.

Cyanoacrylates give off heat on solidification. In rare cases a large drop will generate

enough heat to cause a burn.

Burns should be treated normally after the adhesive has been removed from the skin. If lips are accidentally stuck together apply warm water to the lips and encourage

maximum wetting and pressure from saliva inside the mouth.

Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action.

Eyes: If the eye is bonded closed, release eyelashes with warm water by covering with wet pad.

Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help

to debond the adhesive.

Keep eye covered until debonding is complete, usually within 1-3 days.

Do not force eye open. Medical advice should be sought in case solid particles of

cyanoacry late trapped behind the eyelid cause any abrasive damage.

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 and supportively.

Surgery is not necessary to separate accidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated symptomatically after adhesive is removed.

Section 5. Fire fighting measures

Suitable extinguishing media: Foam, extinguishing powder, carbon dioxide.

Fine water spray

Improper extinguishing media: High pressure waterjet.

Decomposition products in case of

fire:

Oxides of carbon, oxides of nitrogen, irritating organic vapors.

Cy anides.

Special protective equipment for

fire-fighters:

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

Additional fire fighting advice: In case of fire, keep containers cool with water spray.

Do not store or use near heat, spark, open flame or other sources of ignition.

Section 6. Accidental release measures

Personal precautions: Ensure adequate ventilation.

Avoid skin and eye contact. Wear protective equipment.

Environmental precautions: Do not let product enter drains.

Clean-up methods: Do not use cloths for mopping up. Flood with water to complete polymerization and

scrape off the floor. Cured material can be disposed of as non-hazardous waste.

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Loctite 438 25ml AU

Section 7. Handling and storage

Precautions for safe handling: Ventilation (low level) is recommended when using large volumes

Use of dispensing equipment is recommended to minimise the risk of skin or eye contact Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash

thoroughly after handling.

Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal

burns.

Conditions for safe storage: For optimum shelf life store in original containers under refrigerated conditions at 2 - 8°C

(35.6 - 46.4 °F)

Section 8. Exposure controls / personal protection

National exposure standards:

Engineering controls: Use positive down-draft exhaust ventilation if general ventilation is insufficient to

maintain vapor concentration below established exposure limits.

Eye protection: Wear protective glasses.

Skin protection: Protective clothing that covers arms and legs.

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

Polyethylene or polypropylene gloves are recommended when using large volumes.

Do not use PVC, rubber or nylon gloves.

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: black
Liquid
Odor: irritating

Specific gravity: 1.1 Boiling point: $> 149 \,^{\circ}\text{C} \,(> 300.2 \,^{\circ}\text{F})$

Flash point: 80 - 93 °C (176 - 199.4 °F)

(Tagliabue closed cup)

Vapor pressure: < 0.3000000 mbar

Density: 1.1000 g/cm3 **VOC content:** < 3 %

(2010/75/EC)

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Avoid excessive heat and ignition sources.

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LOCTITE 438 BK INSTANT ADHESIVE known as

Loctite 438 25ml AU

Incompatible materials: Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and

alcohols

Hazardous decomposition

products:

May produce fumes when heated to decomposition. Fumes may contain carbon monoxide

and other toxic fumes.

Cyanides.

Section 11. Toxicological information

Health Effects:

Ingestion: Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It

is almost impossible to swallow.

Skin: Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause

allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the

skin. Cured adhesive does not present a health hazard even if bonded to the skin.

Eyes: Irritating to eyes. Causes excessive tearing. Eyelids may bond.

Inhalation: Exposure to vapors above the established exposure limit results in respiratory irritation, which

may lead to difficulty in breathing and tightness in the chest.

Chronic effects: No chronic health effects are expected from the intended use of these products or from

foreseeable handling of them in the workplace.

Acute toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Ethyl 2-cyanoacrylate 7085-85-0	LD50 LD50	> 5,000 mg/kg > 2,000 mg/kg	oral dermal		rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
phthalic anhydride 85-44-9	LD50 LC50 LD50	1,530 mg/kg > 2.14 mg/l > 10,000 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	not specified OECD Guideline 403 (Acute Inhalation Toxicity) not specified
Carbon black 1333-86-4	LD50	> 8,000 mg/kg	oral		rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)

Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Ethyl 2-cyanoacrylate	slightly irritating	24 h	rabbit	OECD Guideline 404 (Acute
7085-85-0				Dermal Irritation / Corrosion)
Carbon black	not irritating	24 h	rabbit	OECD Guideline 404 (Acute
1333-86-4				Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Ethyl 2-cyanoacrylate	irritating	72 h	rabbit	OECD Guideline 405 (Acute
7085-85-0				Eye Irritation / Corrosion)
phthalic anhydride	highly irritating		rabbit	not specified
85-44-9				_
Carbon black	not irritating		rabbit	OECD Guideline 405 (Acute
1333-86-4				Eye Irritation / Corrosion)

SDS No.: 204085 V001.4

LOCTITE 438 BK INSTANT ADHESIVE known as Loctite 438 25ml AU

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	not sensitising		guinea pig	not specified
phthalic anhydride 85-44-9	sensitising	in vivo	guinea pig	not specified
phthalic anhy dride 85-44-9	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	Mouse local lymphnode assay (LLNA)
Carbon black 1333-86-4	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Carbon black 1333-86-4	not sensitising	Respirator y sensitisati on	mouse	not specified

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study/ Route of administration	Metabolic activation / Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	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		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)
phthalic anhydride 85-44-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Carbon black 1333-86-4	negative negative negative	bacterial reverse mutation assay (e.g Ames test) sister chromatid exchange assay in mammalian cells mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Carbon black 1333-86-4	negative	oral: feed		Drosophila melanogaster	OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Drosophila melanogaster)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Carbon black 1333-86-4	NOAEL=>= 52 mg/kg	oral: feed	2 ydaily	rat	not specified

Section 12. Ecological information

SDS No.: 204085 V001.4

LOCTITE 438 BK INSTANT ADHESIVE known as

Loctite 438 25ml AU

General ecological information: Biological and Chemical Oxygen Demands (BOD and COD) are insignificant., Do

not empty into drains / surface water / ground water.

Toxicity:

Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity	time		
			Study			
phthalic anhydride 85-44-9	LC50	313 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
phthalic anhydride 85-44-9	EC50	68 mg/l	Algae	72 h	Selenastrum sp.	OECD Guideline 201 (Alga, Growth Inhibition Test)
phthalic anhy dride 85-44-9	EC 50	>1,000 mg/l	Bacteria	3 h		ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Ethyl 2-cyanoacrylate 7085-85-0	not readily biodegradable.	aerobic	57 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
phthalic anhydride 85-44-9		aerobic	90 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Ethyl 2-cyanoacrylate 7085-85-0	0.776				22 °C	EU Method A.8 (Partition Coefficient)
phthalic anhydride 85-44-9	1.6					not specified

Section 13. Disposal considerations

Waste disposal of product: Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorised

landfill or incinerate under controlled conditions.

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

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SDS No.: 204085 V001.4

LOCTITE 438 BK INSTANT ADHESIVE known as

Loctite 438 25ml AU

Air transport IATA:

UN no.: 3334

Proper shipping name: Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)

Class or division: 9
Packing group: III
Packing instructions (passenger) 964
Packing instructions (cargo) 964

Additional Information IATA: Primary packs containing less than 500ml are unregulated by this

mode of transport and may be shipped unrestricted.

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: GHS: Globally Harmonized System

CAS: Chemical Abstracts Service

ADGC - Australian Dangerous Goods Code

OECD: Organization for Economic Cooperation and Development

LD 50: Lethal Dose 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: 1,2,4,5,6,7,16

Date of previous issue: 10.04.2015

Disclaimer:

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Safety Data Sheet

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LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

SDS No.: 153466 V001.4

respiratory tract irritation

Date of issue: 25.08.2020

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

Product name: LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

Intended use: Anaerobic Adhesive

Supplier:

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

Australia

Phone: +61 (3) 9724 6444

24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379 **Emergency information:**

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 corrosion Category 1B Serious eye damage/eye irritation Category 1 Target Organ Systemic Toxicant -Category 3

Single exposure

Acute hazards to the aquatic

Category 2

environment

Category 3

Chronic hazards to the aquatic environment

Hazard pictogram:



Signal word: Danger

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LOCTITE 515 FLANGE SEALANT known as Loctite

515 Gsk Eliminator 50ml

H314 Causes severe skin burns and eye damage. **Hazard statement(s):**

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.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water [or shower].

P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Immediately call a POISON CENTER or physician. 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.

P363 Wash contaminated clothing before reuse.

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

Anaerobic Sealant Type of preparation:

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Acrylic acid	79-10-7	3- < 5 %
α, α-dimethylbenzyl hydroperoxide	80-15-9	1- < 3 %
2-Hydroxyethyl methacrylate	868-77-9	< 1 %
Acetic acid, 2-phenylhydrazide	114-83-0	< 1 %
non hazardous ingredients~		80- < 90 %

Section 4. First aid measures

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SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

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. Wash clothing before reuse.

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

Get immediate medical attention.

Inhalation: Move to fresh air in case of accidental inhalation of vapours.

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.
Oxides of sulfur.

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 skin and eye contact.

Wear protective equipment. Ensure adequate ventilation.

Danger of slipping on spilled product. Keep unprotected persons away.

Environmental precautions: Waste disposal with the approval of the responsible local authority.

Do not discharge into surface water/ground water.

Clean-up methods: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust).

Scrape up spilled material and place in a closed container for disposal.

SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

Section 7. Handling and storage

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

Avoid skin and eye contact.

Wear suitable protective clothing, safety glasses and gloves.

Conditions for safe storage: Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to

containers as contamination may reduce the shelf life of the bulk product.

Unsuitable materials with

product:

plastic

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				
ACRYLIC ACID 79-10-7		2	5.9				

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

limits.

Eye protection: For eye protection, use tightly fitted safety goggles and a face-shield

Skin protection: Wear suitable protective clothing.

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: purple, opaque

liquid Sharp

Odor: Sharp Specific gravity: 1.1

Boiling point: 150 °C (302 °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: Slightly soluble (20 °C)

Viscosity (dynamic): 150,000 - 300,000 mPa.s

(BROOKFIELD WITH HELIPATH; Method: ;; LCT STM 10; Viscosity Brookfield)

VOC content: < 10 %

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SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

(2010/75/EC)

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Avoid excessive heat and ignition sources.

Extremes of temperature.

Incompatible materials: Strong oxidizing agents.

Acids and bases. Reducing agents.

Hazardous decomposition

products:

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

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

Hazardous polymerization: Will not occur.

Section 11. Toxicological information

Health Effects:

Ingestion: May cause mild gastrointestinal irritation with nausea, vomiting, diarrhea and abdominal pain.

Skin: Causes skin irritation.

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

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: Causes respiratory tract irritation.

Vapors may cause irritation of the nose, throat, and respiratory tract.

Acute toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
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)					
α, α-dimethylbenzyl	LD50	382 mg/kg	oral		rat	other guideline:
hydroperoxide	LD50	530 - 1,060			rat	other guideline:
80-15-9	Acute	mg/kg	dermal			Expert judgement
	toxicity	1,100 mg/kg	dermal			
	estimate					
	(ATE)					
2-Hydroxyethyl	LD50	> 5,000 mg/kg	oral		rat	not specified
methacrylate	LD50	> 5,000 mg/kg			rabbit	not specified
868-77-9			dermal			
Acetic acid, 2-	LD50	270 mg/kg	oral		rat	not specified
phenylhydrazide						
114-83-0						

SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Acrylic acid 79-10-7	highly corrosive	3 min	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
α, α-dimethylbenzyl hydroperoxide 80-15-9	corrosive		rabbit	Draize Test

Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Acrylic acid 79-10-7	corrosive	21 d	rabbit	BASF Test
2-Hydroxyethyl methacrylate 868-77-9	irritating		rabbit	Draize Test

${\bf Respiratory\ or\ skin\ sensitization:}$

Hazardous components	Result	Test type	Species	Method
CAS-No.				
Acrylic acid	not sensitising	Skin	guinea pig	not specified
79-10-7		painting		
		test		

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
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)
α, α-dimethylbenzyl hydroperoxide 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
α, α-dimethylbenzyl hydroperoxide 80-15-9	negative	dermal		mouse	not specified
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)

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SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
α, α-dimethylbenzyl hydroperoxide 80-15-9		inhalation: aerosol	6 h/d5 d/w	rat	not specified
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)

Section 12. Ecological information

SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

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

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity	Exposure time	Species	Method
	-31		Study			
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 Test)
Acrylic acid 79-10-7	EC50	95 mg/l	Daphnia	48 h	Daphnia magna	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater
Acrylic acid 79-10-7	EC10	0.03 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	Daphnids) 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 subspicatus)	EU Method C.3 (Algal Inhibition test)
Acrylic acid 79-10-7	EC20	900 mg/l	Bacteria	30 min	activated sludge, domestic	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
α, α-dimethylbenzyl hydroperoxide 80-15-9	LC50	3.9 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	EC50	18 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	ErC50	3.1 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	,
α, α-dimethylbenzyl hydroperoxide 80-15-9	EC10	70 mg/l	Bacteria	30 min		not specified
2-Hydroxyethyl methacrylate 868-77-9	LC50	> 100 mg/l	Fish	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Hydroxyethyl methacrylate 868-77-9	EC50	380 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation 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
2-Hydroxyethyl methacrylate 868-77-9	EC0	> 3,000 mg/l	Bacteria	16 h	Pseudomonas fluorescens	other guideline:

Persistence and degradability:

Hazardous components	Result	Route of	Degradability	Method
CAS-No.		application		

SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

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)
α, α-dimethylbenzyl hydroperoxide 80-15-9		no data	0 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
2-Hydroxyethyl methacrylate 868-77-9	readily biodegradable	aerobic	92 - 100 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (1))

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Acrylic acid 79-10-7		3.16				QSAR (Quantitative Structure Activity Relationship)
Acrylic acid 79-10-7	0.46				25 °C	OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)
α, α-dimethylbenzyl hydroperoxide 80-15-9		9.1		calculation		OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	2.16					not specified
2-Hydroxyethyl methacrylate 868-77-9	0.42				25 °C	OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)
Acetic acid, 2- phenylhydrazide 114-83-0	0.74					not specified

Section 13. Disposal considerations

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

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

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SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

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

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

STEL - Short term exposure limit TWA - Time weighted average

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 2,3,4,6,9,12,15,16

Date of previous issue: 21.09.2015

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Safety Data Sheet

LOCTITE 567

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SDS No.: 153487

V001.4

Date of issue: 08.05.2020

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

Product name: LOCTITE 567

Intended use: 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:

<u>Hazard Class</u> <u>Hazard Category</u>

Skin sensitizer Category 1
Eye irritation Category 2
Acute hazards to the aquatic environment Category 3

Hazard pictogram:



Signal word: None

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

H319 Causes serious eye irritation. H402 Harmful to aquatic life.

Precautionary Statement(s):

Prevention: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P264 Wash affected area thoroughly after handling.

P280 Wear protective gloves, eye protection, and face protection.

P273 Avoid release to the environment.

Response: P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P363 Wash contaminated clothing before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.

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).

Signal word:

HAZARDOUS

Section 3. Composition / information on ingredients

General chemical description: Mixture

Type of preparation: Anaerobic Sealant

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Titanium dioxide	13463-67-7	< 10 %
Silica, amorphous, fumed, crystal-free	112945-52-5	< 10 %
reaction product: bisphenol-A-(epichlorhydrin)	25068-38-6	< 1 %
non hazardous ingredients~		<= 70 %

Section 4. First aid measures

Ingestion: Do not induce vomiting.

Have victim rinse mouth thoroughly with water.

Seek medical advice.

Skin: Rinse with running water and soap.

Remove contaminated clothing and footwear.

Seek medical advice.

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.

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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

Decomposition products in case of

firo.

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

Carbon monoxide. Carbon dioxide.

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 skin and eye contact.

Ensure adequate ventilation.

Wear appropriate personal protective equipment.

Environmental precautions: Do not let product enter drains.

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.

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash

thoroughly after handling.

Conditions for safe storage: Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to

containers as contamination may reduce the shelf life of the bulk product.

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)
TITANIUM DIOXIDE 13463-67-7	Inhalable dust.		10				
SILICA, AMORPHOUS: FUMED SILICA (RESPIRABLE DUST) 112945-52-5	Respirable dust.		2				
FUMED SILICA (RESPIRABLE DUST) 112945-52-5	Respirable dust.		2				

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Engineering controls: Ensure good ventilation/suction at the workplace.

Eye protection: Safety goggles or safety glasses with side shields.

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact.

Neoprene gloves.

Butyl rubber gloves.

Natural rubber gloves.

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

Specific gravity: 1.14

Boiling point: $> 149 \, ^{\circ}\text{C} \, (> 300.2 \, ^{\circ}\text{F})$ **Flash point:** $> 93.3 \, ^{\circ}\text{C} \, (> 199.94 \, ^{\circ}\text{F})$

Vapor pressure: < 27 mbar

(; 27 °C (80.6 °F))

Density: 1.14 g/cm3 **VOC content:** 0.13 % 1.38 g/l

Section 10. Stability and reactivity

Stability: Stable under recommended storage conditions.

Conditions to avoid: Excessive heat.

Incompatible materials: Reacts with strong oxidants.

Hazardous decomposition

products:

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

Carbon monoxide. Carbon dioxide.

Section 11. Toxicological information

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Health Effects:

Ingestion: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin: May cause skin irritation.

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

May cause skin sensitization.

Eyes: May cause mild irritation

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Inhalation of mists/vapors of this product may cause dizziness, nausea, and respiratory tract

congestion.

Acute toxicity:

Inhalation:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Titanium dioxide	LD50	> 5,000 mg/kg	oral		rat	OECD Guideline 425 (Acute
13463-67-7	LC50	> 6.82 mg/l	inhalation	4 h	rat	Oral Toxicity: Up-and-Down
	LD50	>= 10,000	dermal		hamster	Procedure)
		mg/kg				not specified
						not specified
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)
reaction product:	LD50	> 2,000 mg/kg	oral		rat	OECD Guideline 420 (Acute
bisphenol-A-	LD50	> 2,000 mg/kg			rat	Oral Toxicity)
(epichlorhydrin)			dermal			OECD Guideline 402 (Acute
25068-38-6						Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Titanium dioxide 13463-67-7	not irritating	4 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Silica, amorphous, fumed, crystal-free 112945-52-5	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	moderately irritating	24 h	rabbit	Draize Test

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Titanium dioxide 13463-67-7	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Silica, amorphous, fumed, crystal-free 112945-52-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

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Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Titanium dioxide 13463-67-7	not sensitising	Mouse local lymphnod e assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	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
Titanium dioxide 13463-67-7	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)
Titanium dioxide 13463-67-7	negative	oral: gavage		mouse	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)
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay)
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	negative	oral: gavage		mouse	not specified

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Titanium dioxide 13463-67-7	NOAEL=1,000 mg/kg	oral: gavage	90 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
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	
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	NOAEL=50 mg/kg	oral: gavage	14 wdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Section 12. Ecological information

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General ecological information:

Cured Loctite products are typical polymers and do not pose any immediate environmental hazards., Do not empty into drains / surface water / ground water.

Toxicity:

Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity	time		
Silica, amorphous, fumed,	LC50	> 10,000 mg/l	Study Fish	96 h	Brachydanio rerio (new name:	OECD Guideline
crystal-free	Leso	> 10,000 mg/1	1 1511) o II	Danio rerio)	203 (Fish, Acute
112945-52-5					,	Toxicity Test)
Silica, amorphous, fumed,	EL50	> 1.000 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline
crystal-free		, ,	1		1 0	202 (Daphnia sp.
112945-52-5						Acute
						Immobilisation
						Test)
Silica, amorphous, fumed,	NOELR	10,000 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline
crystal-free						201 (Alga, Growth
112945-52-5						Inhibition Test)
Silica, amorphous, fumed,	EL50	> 10,000 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline
crystal-free						201 (Alga, Growth
112945-52-5						Inhibition Test)
Silica, amorphous, fumed,	EC0	10,000 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27
crystal-free						(Bacterial oxygen
112945-52-5]]					consumption test)
reaction product: bisphenol-A-	LC50	1.75 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline
(epichlorhydrin)						203 (Fish, Acute
25068-38-6		4.5		40.1	5	Toxicity Test)
reaction product: bisphenol-A-	EC50	1.7 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
(epichlorhydrin)						202 (Daphnia sp.
25068-38-6						Acute Immobilisation
reaction product: bisphenol-A-	EC50	> 11 ma/l	Alass	72 h	Scenedesmus capricornutum	Test) OECD Guideline
(epichlorhydrin)	ECSU	> 11 mg/l	Algae	7 Z II	Scenedesinus capricornutum	201 (Alga, Growth
25068-38-6						Inhibition Test)
reaction product: bisphenol-A-	NOEC	4.2 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline
(epichlorhydrin)	NOLC	4.2 mg/1	Aigac	7211	Sechedesinus capiteornatum	201 (Alga, Growth
25068-38-6						Inhibition Test)
reaction product: bisphenol-A-	IC50	> 100 mg/l	Bacteria	3 h	activated sludge, industrial	other guideline:
(epichlorhydrin)						8
25068-38-6						

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
reaction product: bisphenol-A-	not readily biodegradable.	aerobic	5 %	OECD Guideline 301 F (Ready
(epichlorhydrin)				Biodegradability: Manometric
25068-38-6				Respirometry Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
Silica, amorphous, fumed,	0.53					QSAR (Quantitative
crystal-free						Structure Activity
112945-52-5						Relationship)
reaction product: bisphenol-A-	3.242				25 °C	EU Method A.8 (Partition
(epichlorhydrin)						Coefficient)
25068-38-6						

Section 13. Disposal considerations

Waste disposal of product: Dispose of in accordance with local and national regulations. SDS No.: 153487 Page 8 of 9 **LOCTITE 567**

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After use, tubes, cartons and bottles containing residual product should be disposed of as Disposal for uncleaned package:

Disposal must be made according to official regulations.

Section 14. Transport information

Road and Rail Transport:

Not classified as Dangerous Goods according to the criteria of the Dangerous Goods information:

Australian Code for the Transport of Dangerous Goods by Road and

chemically contaminated waste in an authorised legal land fill site or incinerated.

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 TWA - Time weighted average STEL - Short term exposure limit

LD 50: Lethal Dose 50%

OECD: Organization for Economic Cooperation and Development

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: 1,2,3,8,15,16 SDS No.: 153487 Page 9 of 9

V001.4 LOCTITE 567

Date of previous issue: 11.05.2015

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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Safety Data Sheet

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LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

SDS No.: 153466 V001.4

respiratory tract irritation

Date of issue: 25.08.2020

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

Product name: LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

Intended use: Anaerobic Adhesive

Supplier:

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

Australia

Phone: +61 (3) 9724 6444

24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379 **Emergency information:**

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 corrosion Category 1B Serious eye damage/eye irritation Category 1 Target Organ Systemic Toxicant -Category 3

Single exposure

Acute hazards to the aquatic

Category 2

environment

Category 3

Chronic hazards to the aquatic environment

Hazard pictogram:



Signal word: Danger

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SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite

515 Gsk Eliminator 50ml

H314 Causes severe skin burns and eye damage. **Hazard statement(s):**

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.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water [or shower].

P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Immediately call a POISON CENTER or physician. 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.

P363 Wash contaminated clothing before reuse.

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

Anaerobic Sealant Type of preparation:

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Acrylic acid	79-10-7	3-< 5 %
α, α-dimethylbenzyl hydroperoxide	80-15-9	1-< 3 %
2-Hydroxyethyl methacrylate	868-77-9	< 1 %
Acetic acid, 2-phenylhydrazide	114-83-0	< 1 %
non hazardous ingredients~		80- < 90 %

Section 4. First aid measures

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SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

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. Wash clothing before reuse.

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

Get immediate medical attention.

Inhalation: Move to fresh air in case of accidental inhalation of vapours.

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.
Oxides of sulfur.

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 skin and eye contact.

Wear protective equipment. Ensure adequate ventilation.

Danger of slipping on spilled product. Keep unprotected persons away.

Environmental precautions: Waste disposal with the approval of the responsible local authority.

Do not discharge into surface water/ground water.

Clean-up methods: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust).

Scrape up spilled material and place in a closed container for disposal.

SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

Section 7. Handling and storage

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

Avoid skin and eye contact.

Wear suitable protective clothing, safety glasses and gloves.

Conditions for safe storage: Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to

containers as contamination may reduce the shelf life of the bulk product.

Unsuitable materials with

product:

plastic

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				
ACRYLIC ACID 79-10-7		2	5.9				

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

limits.

Eye protection: For eye protection, use tightly fitted safety goggles and a face-shield

Skin protection: Wear suitable protective clothing.

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: purple, opaque

liquid Sharp

Odor: Sharp
Specific gravity: 1.1

Boiling point: 150 °C (302 °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: Slightly soluble (20 °C)

Viscosity (dynamic): 150,000 - 300,000 mPa.s

(BROOKFIELD WITH HELIPATH; Method: ;; LCT STM 10; Viscosity Brookfield)

VOC content: < 10 %

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SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

(2010/75/EC)

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Avoid excessive heat and ignition sources.

Extremes of temperature.

Incompatible materials: Strong oxidizing agents.

Acids and bases. Reducing agents.

Hazardous decomposition

products:

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

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

Hazardous polymerization: Will not occur.

Section 11. Toxicological information

Health Effects:

Ingestion: May cause mild gastrointestinal irritation with nausea, vomiting, diarrhea and abdominal pain.

Skin: Causes skin irritation.

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

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: Causes respiratory tract irritation.

Vapors may cause irritation of the nose, throat, and respiratory tract.

Acute toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
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)					
α, α-dimethylbenzyl	LD50	382 mg/kg	oral		rat	other guideline:
hydroperoxide	LD50	530 - 1,060			rat	other guideline:
80-15-9	Acute	mg/kg	dermal			Expert judgement
	toxicity	1,100 mg/kg	dermal			
	estimate					
	(ATE)					
2-Hydroxyethyl	LD50	> 5,000 mg/kg	oral		rat	not specified
methacrylate	LD50	> 5,000 mg/kg			rabbit	not specified
868-77-9			dermal			
Acetic acid, 2-	LD50	270 mg/kg	oral		rat	not specified
phenylhydrazide						
114-83-0						

SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Acrylic acid 79-10-7	highly corrosive	3 min	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
α, α-dimethylbenzyl hydroperoxide 80-15-9	corrosive		rabbit	Draize Test

Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Acrylic acid 79-10-7	corrosive	21 d	rabbit	BASF Test
2-Hydroxyethyl methacrylate 868-77-9	irritating		rabbit	Draize Test

${\bf Respiratory\ or\ skin\ sensitization:}$

Hazardous components	Result	Test type	Species	Method
CAS-No.				
Acrylic acid	not sensitising	Skin	guinea pig	not specified
79-10-7		painting		
		test		

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
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)
α, α-dimethylbenzyl hydroperoxide 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
α, α-dimethylbenzyl hydroperoxide 80-15-9	negative	dermal		mouse	not specified
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)

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SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
α, α-dimethylbenzyl hydroperoxide 80-15-9		inhalation: aerosol	6 h/d5 d/w	rat	not specified
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)

Section 12. Ecological information

SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

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

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity	Exposure time	Species	Method
	-31		Study			
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 Test)
Acrylic acid 79-10-7	EC50	95 mg/l	Daphnia	48 h	Daphnia magna	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater
Acrylic acid 79-10-7	EC10	0.03 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	Daphnids) 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 subspicatus)	EU Method C.3 (Algal Inhibition test)
Acrylic acid 79-10-7	EC20	900 mg/l	Bacteria	30 min	activated sludge, domestic	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
α, α-dimethylbenzyl hydroperoxide 80-15-9	LC50	3.9 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	EC50	18 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	ErC50	3.1 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	,
α, α-dimethylbenzyl hydroperoxide 80-15-9	EC10	70 mg/l	Bacteria	30 min		not specified
2-Hydroxyethyl methacrylate 868-77-9	LC50	> 100 mg/l	Fish	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Hydroxyethyl methacrylate 868-77-9	EC50	380 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation 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
2-Hydroxyethyl methacrylate 868-77-9	EC0	> 3,000 mg/l	Bacteria	16 h	Pseudomonas fluorescens	other guideline:

Persistence and degradability:

Hazardous components	Result	Route of	Degradability	Method
CAS-No.		application		

SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

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)
α, α-dimethylbenzyl hydroperoxide 80-15-9		no data	0 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
2-Hydroxyethyl methacrylate 868-77-9	readily biodegradable	aerobic	92 - 100 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Acrylic acid 79-10-7		3.16				QSAR (Quantitative Structure Activity Relationship)
Acrylic acid 79-10-7	0.46				25 °C	OECD Guideline 107 (Partition Coefficient (noctanol / water), Shake Flask Method)
α, α-dimethylbenzyl hydroperoxide 80-15-9		9.1		calculation		OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	2.16					not specified
2-Hydroxyethyl methacrylate 868-77-9	0.42				25 °C	OECD Guideline 107 (Partition Coefficient (noctanol / water), Shake Flask Method)
Acetic acid, 2- phenylhydrazide 114-83-0	0.74					not specified

Section 13. Disposal considerations

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

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

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SDS No.: 153466 V001.4

LOCTITE 515 FLANGE SEALANT known as Loctite 515 Gsk Eliminator 50ml

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

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

STEL - Short term exposure limit TWA - Time weighted average

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 2,3,4,6,9,12,15,16

Date of previous issue: 21.09.2015

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Safety Data Sheet

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LOCTITE 609 RETAINER known as Loctite 609 Retaining - 50ml

SDS No.: 153471 V001.4

Date of issue: 27.04.2020

respiratory tract irritation

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

Product name: LOCTITE 609 RETAINER known as Loctite 609 Retaining - 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:

<u>Hazard Class</u> <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

raiget Organ systemic roxicant -

Single exposure

Acute hazards to the aquatic

environment

Chronic hazards to the aquatic

environment

Category 3

caregory z

Category 3

Hazard pictogram:



Signal word: Warning

SDS No.: 153471

V001.4

LOCTITE 609 RETAINER known as Loctite 609

Retaining - 50ml

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, clothing, eye 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, and product characteristics at time of

disposal.

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).

Signal word:

HAZARDOUS

Section 3. Composition / information on ingredients

General chemical description: Mixture

Type of preparation: Anaerobic Sealant

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
2-Hydroxyethyl methacrylate	868-77-9	10- 30 %
α, α-dimet hylbenzyl hydroperoxide	80-15-9	< 3 %
met hacry lic acid	79-41-4	< 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: Immediately flush skin with plenty of water (using soap, if available).

Seek medical advice.

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V001.4 LOCTITE 609 RETAINER known as Loctite 609 Retaining - 50ml

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes.

Seek medical advice.

Inhalation: Move to fresh air.

Keep warm and in a quiet place.

Seek medical advice.

First Aid facilities: Eye wash

Normal washroom facilities

Medical attention and special

treatment:

Treat symptomatically.

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:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

Wear full protective clothing.

Additional fire fighting advice: In case of fire, keep containers cool with water spray.

Section 6. Accidental release measures

Personal precautions: Ensure adequate ventilation.

Avoid skin and eye contact.

Wear appropriate personal protective equipment.

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.

Avoid skin and eye contact.

Wear suitable protective clothing, safety glasses and gloves. Prolonged or repeated skin contact should be avoided

Conditions for safe storage: Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to

containers as contamination may reduce the shelf life of the bulk product.

Section 8. Exposure controls / personal protection

SDS No.: 153471 Page 4 of 9

V001.4 LOCTITE 609 RETAINER known as Loctite 609

Retaining - 50ml

National exposure standards:

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

limits.

Eye protection: Wear protective glasses.

Skin protection: Wear suitable protective clothing.

Avoid skin-contact.

Recommended gloves include buty1rubber 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

Specific gravity: 1.1

Boiling point: $> 150 \, ^{\circ}\text{C} \ (> 302 \, ^{\circ}\text{F})$ **Flash point:** $> 93.3 \, ^{\circ}\text{C} \ (> 199.94 \, ^{\circ}\text{F})$

(Tagliabue closed cup)

Vapor pressure: < 6 mbar

(; 26 °C (78.8 °F))

Density: 1.1 g/cm3 **VOC content:** < 3.00 %

(2010/75/EC)

Section 10. Stability and reactivity

Stability: Stable under recommended storage conditions.

Conditions to avoid: Keep away from heat, ignition sources and incompatible materials.

Incompatible materials: 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.

Section 11. Toxicological information

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SDS No.: 153471 V001.4

LOCTITE 609 RETAINER known as Loctite 609

Retaining - 50ml

Health Effects:

Ingestion: Ingestion can cause gastrointestinal irritation, 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 irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Inhalation: This product is irritating to the respiratory system.

Vapors are irritating to the nose, throat and respiratory tract resulting in dryness of throat and tightness in chest. Other symptoms of overexposure include headache, nausea, narcosis, fatigue

and loss of appetite.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
2-Hydroxyethyl methacrylate 868-77-9	LD50 LD50	> 5,000 mg/kg > 5,000 mg/kg	oral dermal		rat rabbit	not specified not specified
α, α-dimethylbenzyl hydroperoxide 80-15-9	LD50 LD50 Acute toxicity estimate (ATE)	382 mg/kg 530 - 1,060 mg/kg 1,100 mg/kg	oral dermal dermal		rat rat	other guideline: other guideline: Expert judgement
methacrylic acid 79-41-4	LD50 LC50 LD50	1,320 mg/kg > 3.6 mg/l 500 - 1,000 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) Dermal Toxicity Screening

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
α, α-dimethylbenzyl hydroperoxide 80-15-9	corrosive		rabbit	Draize Test
methacrylic acid 79-41-4	corrosive	3 min	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
2-Hydroxyethyl methacrylate 868-77-9	irritating		rabbit	Draize Test
methacrylic acid 79-41-4	corrosive		rabbit	Draize Test

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
methacrylic acid 79-41-4	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

SDS No.: 153471 V001.4

LOCTITE 609 RETAINER known as Loctite 609

Retaining - 50ml

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study/ Route of	Metabolic activation/	Species	Method
		administration	Exposure time		
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)
α, α-dimethylbenzyl hydroperoxide 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
α, α-dimethylbenzyl hydroperoxide 80-15-9	negative	dermal		mouse	not specified
methacrylic acid 79-41-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
methacrylic acid 79-41-4	negative	inhalation		mouse	OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
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)
α, α-dimethylbenzyl hydroperoxide 80-15-9		inhalation: aerosol	6 h/d5 d/w	rat	not specified

Section 12. Ecological information

SDS No.: 153471 V001.4

LOCTITE 609 RETAINER known as Loctite 609

Retaining - 50ml

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

Ecotoxicity: Harmful to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
2-Hydroxyethyl methacrylate 868-77-9	LC50	> 100 mg/l	Fish	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Hydroxyethyl methacrylate 868-77-9	EC50	380 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Hydroxyethyl methacrylate 868-77-9	EC50	836 mg/l	Algae	72 h	Selenastrum capricomutum (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 capricomutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline
2-Hydroxyethyl methacrylate 868-77-9	EC0	> 3,000 mg/l	Bacteria	16 h	Pseudomonas fluorescens	other guideline:
α, α-dimethylbenzyl hydroperoxide 80-15-9	LC50	3.9 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	EC50	18 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	ErC50	3.1 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	,
α, α-dimethylbenzyl hydroperoxide 80-15-9	EC10	70 mg/l	Bacteria	30 min		not specified
methacrylic acid 79-41-4	LC50	85 mg/l	Fish	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	EPA OTS 797.1400 (Fish Acute Toxicity Test)
methacrylic acid 79-41-4	EC50	> 130 mg/l	Daphnia	48 h	Daphnia magna	EPAOTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)
methacrylic acid 79-41-4	NOEC	8.2 mg/l	Algae	72 h	Selenastrum capricomutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline
methacrylic acid 79-41-4	EC50	45 mg/l	Algae	72 h	Selenastrum capricomutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline
methacrylic acid 79-41-4	EC10	100 mg/l	Bacteria	17 h	<u>r</u>	not specified

Persistence and degradability:

Hazardous components	Result	Route of	Degradability	Method
CAS-No.		application		

SDS No.: 153471 V001.4

LOCTITE 609 RETAINER known as Loctite 609 Retaining - 50ml

2-Hydroxyethyl methacrylate 868-77-9	readily biodegradable	aerobic	92 - 100 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
α, α-dimethylbenzyl hydroperoxide 80-15-9		no data	0 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
methacrylic acid 79-41-4	inherently biodegradable	aerobic	100 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
methacrylic acid 79-41-4	readily biodegradable	aerobic	86 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
2-Hydroxyethyl methacrylate 868-77-9	0.42				25 °C	OECD Guideline 107 (Partition Coefficient (noctanol / water), Shake Flask Method)
α, α-dimethylbenzyl hydroperoxide 80-15-9		9.1		calculation		OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	2.16					not specified
methacrylic acid 79-41-4	0.93				22 °C	OECD Guideline 107 (Partition Coefficient (noctanol / water), Shake Flask Method)

Section 13. Disposal considerations

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

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

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SDS No.: 153471 V001.4

LOCTITE 609 RETAINER known as Loctite 609

Retaining - 50ml

Section 16. Other information

Abbreviations/acronyms: ADGC - Australian Dangerous Goods Code

GHS: Globally Harmonized System CAS: Chemical Abstracts Service

LD 50: Lethal Dose 50%

OECD: Organization for Economic Cooperation and Development

LC 50: Lethal Concentration 50%

IMDG: International Maritime Dangerous Goods code

IATA-DGR: International Air Transport Association - Dangerous Goods Regulations

STEL - Short term exposure limit TWA - Time weighted average

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 1,2,6,15,16

Date of previous issue: 08.05.2015

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Safety Data Sheet

LOCTITE 680 RC known as Loctite 680 RC 50ml AU

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SDS No.: 450729

V001.2

Date of issue: 21.05.2020

respiratory tract irritation

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

Product name: LOCTITE 680 RC known as Loctite 680 RC 50ml AU

Intended use: Anaerobic 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:

Hazard ClassHazard CategoryTarget organSkin irritationCategory 2

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

Single exposure
Acute hazards to the aquatic
Category 2

environment
Chronic hazards to the aquatic
Category 3

environment

Hazard pictogram:



Signal word: Danger

LOCTITE 680 RC known as Loctite 680 RC 50ml AU

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

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 %
2,2'-Ethylenedioxydiethyl dimethacrylate	109-16-0	< 1 %
Acetic acid, 2-phenylhydrazide	114-83-0	< 1 %
maleic acid	110-16-7	< 1 %
non hazardous ingredients~		60- <= 100 %

Section 4. First aid measures

SDS No.: 450729 V001.2

LOCTITE 680 RC known as Loctite 680 RC 50ml AU

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.

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

Seek medical advice.

Inhalation: Move to fresh air.

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

Wear full protective clothing.

fire-fighters:

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: Wear protective equipment.

Ensure adequate ventilation. Avoid skin and eye contact.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust).

Scrape up spilled material and place in a closed container for disposal.

Section 7. Handling and storage

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

Avoid breathing vapors or mists of this product.

Avoid skin and eye contact.

Wear suitable protective clothing, safety glasses and gloves.

Conditions for safe storage: Store in a cool, well-ventilated place.

Store protected from heat influence. cool and dry, in tightly closed containers

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SDS No.: 450729 V001.2

LOCTITE 680 RC known as Loctite 680 RC 50ml AU

Section 8. Exposure controls / personal protection

National exposure standards:

In gre dient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
ACRYLIC ACID 79-10-7		2	5.9				
ACRYLIC ACID 79-10-7		2	5.9				

Engineering controls: Ensure good ventilation/extraction.

Eye protection: Wear chemical goggles and face shield.

Skin protection: Protective clothing that covers arms and legs.

Recommended gloves include butyl rubber and neoprene.

Respiratory protection: Use only in well-ventilated areas.

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

Flash point: 93.3 °C (199.94 °F)

Density: 1.1 g/cm3

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Elevated temperatures.

Heat, flames, sparks and other sources of ignition.

Store away from incompatible materials.

Incompatible materials: Reducing agents.

Strong acids and oxidizing agents.

Oxygen scavengers. Strong alkalis.

Hazardous decomposition

products:

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

Carbon monoxide. Carbon dioxide. Oxides of nitrogen.

Section 11. Toxicological information

LOCTITE 680 RC known as Loctite 680 RC 50ml AU

Health Effects:

Ingestion: Ingestion may cause gastrointestinal irritation, 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: Causes respiratory tract irritation.

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	$> 5,000 \mathrm{mg/kg}$			rabbit	Oral Toxicity)
1,2-diol			dermal			not specified
27813-02-1						
2,2'-Ethylenedioxydiethyl	LD50	10,837 mg/kg	oral		rat	not specified
dimethacrylate	LD50	> 2,000 mg/kg			mouse	not specified
109-16-0			dermal			
Acetic acid, 2-	LD50	270 mg/kg	oral		rat	not specified
phenylhydrazide						
114-83-0						
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 CAS-No.	Result	Exposure time	Species	Method
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
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	not irritating	24 h	rabbit	Draize Test
maleic acid 110-16-7	irritating	24 h	human	Patch Test

Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
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
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
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
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	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)	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	negative	bacterial reverse	with and without		OECD Guideline 471
methacrylate 7779-31-9		mutation assay (e.g Ames test)			(Bacterial Reverse Mutation Assay)
2-Hydroxyethyl met hacrylate 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)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	negative negative negative	mammalian cell gene mutation assay bacterial reverse mutation assay (e.g Ames test) in vitro mammalian cell micronucleus test	with and without with and without with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 487 (In vitro Mammalian Cell 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 met hacrylate 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)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	NOAEL=1,000 mg/kg	oral: gavage	daily	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

LOCTITE 680 RC known as Loctite 680 RC 50ml AU

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

Ecotoxicity: Harmful to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	LC50	1.9 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	203 (Fish, Acute
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
	EC10	0.42/	A1	72 h	D	Immobilisation Test)
3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	EC10	0.43 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	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 Toxicity Test)
2-Hydroxyethyl methacrylate 868-77-9	EC50	380 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Hydroxyethyl methacrylate 868-77-9	EC50	836 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella	OECD Guideline
2-Hydroxyethyl methacrylate 868-77-9	NOEC	400 mg/l	Algae	72 h	subcapitata) 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:
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 Test)
Acrylic acid 79-10-7	EC50	95 mg/l	Daphnia	48 h		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 subspicatus)	EU Method C.3 (Algal Inhibition test)
Acrylic acid 79-10-7	EC20	900 mg/l	Bacteria	30 min		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 Test)
Methacrylic acid, monoester with propane-1,2-diol	EC50	> 97.2 mg/l	Algae	72 h	Pseudokirchneriella subcapitat a	
27813-02-1 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
2,2'-Ethylenedioxydiethyl dimethacrylate	LC50	16.4 mg/l	Fish	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute

LOCTITE 680 RC known as Loctite 680 RC 50ml AU

ļ	109-16-0 2,2'-Ethylenedioxydiethyl dimethacrylate	EC50	> 100 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	201 (Alga, Growth
	109-16-0 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	NOEC	18.6 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	Inhibition Test) OECD Guideline 201 (Alga, Growth Inhibition Test)
1	maleic acid	LC50	> 245 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
	maleic acid 110-16-7	EC50	42.81 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation
	maleic acid 110-16-7	EC50	74.35 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	Test) OECD Guideline 201 (Alga, Growth Inhibition Test)
	maleic acid 110-16-7	EC10	11.8 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	/
	maleic acid 110-16-7	EC10	44.6 mg/l	Bacteria	18 h	1	DIN 38412, part 8 (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)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	readily biodegradable	aerobic	85 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution 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			

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SDS No.: 450729 V001.2

LOCTITE 680 RC known as Loctite 680 RC 50ml AU

3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	5.25			20 °C	OECD Guideline 117 (Partition Coefficient (noctanol / water), HPLC Method)
2-Hydroxyethyl methacrylate 868-77-9	0.42			25 °C	OECD Guideline 107 (Partition Coefficient (noctanol / water), Shake Flask Method)
Acrylic acid 79-10-7		3.16			QSAR (Quantitative Structure Activity Relationship)
Acrylic acid 79-10-7	0.46			25 °C	OECD Guideline 107 (Partition Coefficient (noctanol / water), Shake Flask Method)
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	0.97			20 °C	not specified
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	2.3				OECD Guideline 117 (Partition Coefficient (noctanol / water), HPLC Method)
Acetic acid, 2- phenylhydrazide 114-83-0	0.74				not specified
maleic acid 110-16-7	-1.3			20 °C	OECD Guideline 107 (Partition Coefficient (noctanol / water), Shake Flask Method)

Section 13. Disposal considerations

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

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

S US MP Poisons S chedule

None

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

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

STEL - Short term exposure limit TWA - Time weighted average

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 1,2,3,7,15,16

Date of previous issue: 21.05.2015

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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Safety Data Sheet

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LOCTITE 569 HYDRAULIC SEALANT known as Loctite 569 50ML AU

SDS No.: 150775 V001.4

Date of issue: 07.02.2020

respiratory tract irritation

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

Product name: LOCTITE 569 HYDRAULIC SEALANT known as Loctite 569 50ML AU

Intended use: Anaerobic Sealant

Supplier:

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

Phone: +61 (3) 9724 6444

24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379 **Emergency information:**

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

Serious eye irritation Category 2A Target Organ Systemic Toxicant -Category 3 Single exposure

Acute hazards to the aquatic

environment

Chronic hazards to the aquatic

environment

Category 3

Category 3

Hazard pictogram:

Signal word:

Warning

SDS No.: 150775 V001.4

LOCTITE 569 HYDRAULIC SEALANT known as

Loctite 569 50ML AU

Hazard statement(s): 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.

P273 Avoid release to the environment. P280 Wear eye protection/face protection.

Response: 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.

P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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).

Signal word:

HAZARDOUS

Section 3. Composition / information on ingredients

General chemical description: Mixture

Type of preparation: Anaerobic Sealant

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
α, α-dimethylbenzyl hydroperoxide	80-15-9	1-< 3 %

Section 4. First aid measures

Ingestion: Rinse mouth, do not induce vomiting, consult a doctor.

Skin: Rinse with running water and soap.

Remove contaminated clothing and footwear. If skin irritation persists, call a physician.

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.

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LOCTITE 569 HYDRAULIC SEALANT known as

Loctite 569 50ML AU

Section 5. Fire fighting measures

Suitable extinguishing media: Carbon dioxide, foam, powder

Decomposition products in case of

fire:

Oxides of carbon. Irritating fumes.

Particular danger in case of fire: See section 10.

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 skin and eye contact.

Ensure adequate ventilation.

People who are not part of the emergency service should stay away.

Environmental precautions: Do not let product enter drains.

Follow all local, state, federal and provincial regulations for disposal.

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.

Conditions for safe storage: Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to

containers as contamination may reduce the shelf life of the bulk product.

Section 8. Exposure controls / personal protection

National exposure standards:

None

Engineering controls: Ensure good ventilation/suction at the workplace.

Eye protection: Safety goggles or safety glasses with side shields.

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact.

Neoprene gloves.

Butyl rubber gloves.

Natural rubber gloves.

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

SDS No.: 150775 V001.4

LOCTITE 569 HYDRAULIC SEALANT known as

Loctite 569 50ML AU

Appearance: brown liquid Odor: mild

Specific gravity: 1.049 **Flash point:** > 93.3 °C (> 199.94 °F)

(Tagliabue closed cup)

Solubility in water: < 1.00000 g/l

Section 10. Stability and reactivity

Conditions to avoid: Excessive heat.

Incompatible materials: Reacts with strong oxidants.

Hazardous decomposition

products:

Carbon dioxide, carbon monoxide and irritating and/or toxic gases and particulate may be

generated by thermal decomposition or combustion.

Section 11. Toxicological information

Health Effects:

Ingestion: Ingestion may cause stomach ache and vomiting.

Skin: May cause skin irritation.

Eyes: Contact with eyes will cause irritation.

Inhalation: This product is irritating to the respiratory system.

Aggravated med.

condition:

Eye, skin, and respiratory disorders.

Acute toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
α, α-dimethylbenzyl	LD50	382 mg/kg	oral		rat	other guideline:
hydroperoxide	LD50	530 - 1,060			rat	other guideline:
80-15-9	Acute	mg/kg	dermal			Expert judgement
	toxicity	1,100 mg/kg	dermal			
	estimate					
	(ATE)					

Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
α, α-dimethylbenzyl	corrosive		rabbit	Draize Test
hydroperoxide				
80-15-9				

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study/ Route of administration	Metabolic activation/ Exposure time	Species	Method
α, α-dimethylbenzyl hydroperoxide 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
α, α-dimethylbenzyl hydroperoxide 80-15-9	negative	dermal		mouse	not specified

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LOCTITE 569 HYDRAULIC SEALANT known as

Loctite 569 50ML AU

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
α, α-dimethylbenzyl		inhalation:	6 h/d5 d/w	rat	not specified
hydroperoxide		aerosol			_
80-15-9					

Section 12. Ecological information

General ecological information: Cured Loctite products are typical polymers and do not pose any immediate

environmental hazards., Do not empty into drains / surface water / ground water.

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

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
α, α-dimethylbenzyl hydroperoxide 80-15-9	LC50	3.9 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	EC50	18 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphniasp. Acute Immobilisation Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	ErC50	3.1 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	,
α, α-dimethylbenzyl hydroperoxide 80-15-9	EC10	70 mg/l	Bacteria	30 min		not specified

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
α, α-dimethylbenzyl		no data	0 %	OECD Guideline 301 B (Ready
hydroperoxide				Biodegradability: CO2 Evolution
80-15-9				Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
α, α-dimethylbenzyl hydroperoxide 80-15-9		9.1		calculation		OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	2.16					not specified

Section 13. Disposal considerations

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

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

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LOCTITE 569 HYDRAULIC SEALANT known as Loctite 569 50ML AU

Locate 307 30WE 11

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

S US MP Poisons S chedule

Section 16. Other information

Abbreviations/acronyms: IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

GHS: Globally Harmonized System CAS: Chemical Abstracts Service

LD 50: Lethal Dose 50%

None

OECD: Organization for Economic Cooperation and Development

ADGC - Australian Dangerous Goods Code

IMDG: International Maritime Dangerous Goods code

Reason for issue: Reviewed MSDS. Reissued with new date. involved chapters: 1,2,3

Date of previous issue: 04.02.2015

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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Safety Data Sheet

LOCTITE 263 BO50MLEN/CH/JP known as 263 THREADLOCKER 50 ML A/P

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SDS No.: 347828

V001.4

Date of issue: 22.01.2020

respiratory tract irritation

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

Product name: LOCTITE 263 BO50MLEN/CH/JP known as 263 THREADLOCKER 50 ML A/P

Intended use: 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:

<u>Hazard Class</u> <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

Acute hazards to the aquatic

environment

Chronic hazards to the aquatic

environment

Category 2

Category 2

Hazard pictogram:



Signal word: Warning

LOCTITE 263 BO50MLEN/CH/JP known as 263 THREADLOCKER 50 ML A/P

Hazard statement(s): H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H411 Toxic 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.

P391 Collect spillage.

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
3,3,5 Trimethylcyclohexyl methacrylate	7779-31-9	20- < 30 %
2,2'-Ethylenedioxydiethyl dimethacrylate	109-16-0	1-< 10 %
α, α-dimethylbenzyl hydroperoxide	80-15-9	1-< 3 %
maleic acid	110-16-7	< 1 %
Acetic acid, 2-phenylhydrazide	114-83-0	< 1 %

Section 4. First aid measures

Ingestion: Rinse mouth, do not induce vomiting, consult a doctor.

Skin: Rinse with running water and soap.

Seek medical advice.

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.

SDS No.: 347828 Page 3 of 10 LOCTITE 263 BO50MLEN/CH/JP known as 263

V001.4 THREADLOCKER 50 ML A/P

First Aid facilities: Eye wash

Normal washroom facilities

Section 5. Fire fighting measures

Suitable extinguishing media: Carbon dioxide, foam, powder

Combustion behaviour: Non flammable product (flash point is greater than 100°C (CC))

Decomposition products in case of Oxides of carbon, oxides of nitrogen, irritating organic vapors.

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: Wear protective equipment.

> Ensure adequate ventilation. Avoid skin and eye contact.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust).

Scrape up spilled material and place in a closed container for disposal.

Section 7. Handling and storage

Precautions for safe handling: See advice in section 8

Use only in well-ventilated areas.

Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

Avoid breathing vapors or mists of this product.

Conditions for safe storage: Store in a cool, well-ventilated place.

Store protected from heat influence. cool and dry, in tightly closed containers

Section 8. Exposure controls / personal protection

National exposure standards:

None

Engineering controls: Ensure good ventilation/extraction.

Eye protection: Wear protective glasses.

Skin protection: Protective clothing that covers arms and legs.

Use of Butylor Nitrile Rubber gloves is recommended.

Respiratory protection: Use only in well-ventilated areas.

If inhalation risk exists, wear a respirator or air supplied mask complying with the

requirements of AS/NZS 1715 and AS/NZS 1716.

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LOCTITE 263 BO50MLEN/CH/JP known as 263 THREADLOCKER 50 ML A/P

Section 9. Physical and chemical properties

Appearance: Red Liquid

Odor: Characteristic
Flash point: 100 °C (212 °F)
Estimated

 $\textbf{Solubility in water:} \hspace{1.5cm} < 1.00000 \; g/l$

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Excessive heat.

Incompatible materials: Reducing agents.

Strong acids and oxidizing agents.

Oxygen scavengers. Strong alkalis.

Hazardous decomposition

products:

Oxides of carbon.

Irritating organic vapours.

Section 11. Toxicological information

Health Effects:

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin: Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals.

Irritating to skin.

Eyes: Contact with this product may cause severe eye irritation.

Symptoms may include severe irritation, pain, tearing, blurred vision.

Inhalation: Causes respiratory tract irritation.

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)
2,2'-Ethylenedioxydiethyl	LD50	10,837 mg/kg	oral		rat	not specified
dimethacrylate	LD50	> 2,000 mg/kg			mouse	not specified
109-16-0			dermal			
α, α-dimethylbenzyl	LD50	382 mg/kg	oral		rat	other guideline:
hydroperoxide	LD50	530 - 1,060			rat	other guideline:
80-15-9	Acute	mg/kg	dermal			Expert judgement
	toxicity	1,100 mg/kg	dermal			
	estimate					
	(ATE)					
maleic acid	LD50	708 mg/kg	oral		rat	not specified
110-16-7	LD50	1,560 mg/kg			rabbit	not specified
			dermal			
Acetic acid, 2-	LD50	270 mg/kg	oral		rat	not specified
phenylhydrazide						
114-83-0						

LOCTITE 263 BO50MLEN/CH/JP known as 263 THREADLOCKER 50 ML A/P

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	not irritating	24 h	rabbit	Draize Test
α, α-dimethylbenzyl hydroperoxide 80-15-9	corrosive		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
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
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)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	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)	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)

LOCTITE 263 BO50MLEN/CH/JP known as 263 THREADLOCKER 50 ML A/P

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)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	negative negative negative	mammalian cell gene mutation assay bacterial reverse mutation assay (e.g Ames test) in vitro mammalian cell micronucleus test	with and without with and without with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
α, α-dimethylbenzyl hydroperoxide 80-15-9	negative	dermal		mouse	not specified
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)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	NOAEL=1,000 mg/kg	oral: gavage	daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9		inhalation: aerosol	6 h/d5 d/w	rat	not specified
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

LOCTITE 263 BO50MLEN/CH/JP known as 263 THREADLOCKER 50 ML A/P

General ecological information:

Do not empty into drains $\slash\hspace{-0.5em}$ surface water $\slash\hspace{-0.5em}$ ground water.

Toxicity:

Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity	time		
2.2.5.77.	1.050	1.0 //	Study	0.61	B 1 1 : : : /	OEGD C : 1 1;
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					Damo rerio)	Toxicity Test)
3,3,5 Trimethylcyclohexyl	EC50	14.43 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
methacrylate						202 (Daphnia sp.
7779-31-9						Acute Immobilisation
						Test)
3,3,5 Trimethylcyclohexyl	EC10	0.43 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	
methacrylate						201 (Alga, Growth
7779-31-9 2,2'-Ethylenedioxydiethyl	LC50	16.4 mg/l	Fish	96 h	Danio rerio	Inhibition Test) OECD Guideline
dimethacrylate	LC30	10.4 mg/1	1 1511	70 H	Damo Terro	203 (Fish, Acute
109-16-0						Toxicity Test)
2,2'-Ethylenedioxydiethyl	EC50	> 100 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	
dimethacrylate 109-16-0						201 (Alga, Growth Inhibition Test)
2,2'-Ethylenedioxydiethyl	NOEC	18.6 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	/
dimethacrylate		C				201 (Alga, Growth
109-16-0	1.050	2.0	F2. 1	0.61	0111	Inhibition Test)
α, α-dimethylbenzyl hydroperoxide	LC50	3.9 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute
80-15-9						Toxicity Test)
α, α-dimethylbenzyl	EC50	18 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
hydroperoxide 80-15-9						202 (Daphnia sp. Acute
80-13-9						Immobilisation
						Test)
α, α-dimethylbenzyl	ErC50	3.1 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	
hydroperoxide 80-15-9						201 (Alga, Growth Inhibition Test)
α, α-dimethylbenzyl	EC10	70 mg/l	Bacteria	30 min		not specified
hydroperoxide		C				•
80-15-9 maleic acid	LC50	> 245/1	Fish	48 h	Leuciscus idus	DIN 38412-15
110-16-7	LC30	> 245 mg/l	FISH	4611	Leuciscus idus	DIN 36412-13
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	
110-16-7						201 (Alga, Growth
maleic acid	EC10	11.8 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	Inhibition Test) OECD Guideline
110-16-7	Lero	11.0 mg/1	riigae	7211	a seadokiremienena saseapitata	201 (Alga, Growth
						Inhibition Test)
maleic acid 110-16-7	EC10	44.6 mg/l	Bacteria	18 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas
110-10-7						Zellvermehrungshe
						mm-Test)

Persistence and degradability:

Hazardous components	Result	Route of	Degradability	Method
CAS-No.		application		

LOCTITE 263 BO50MLEN/CH/JP known as 263 THREADLOCKER 50 ML A/P

3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9	not readily biodegradable.	aerobic	16.8 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	readily biodegradable	aerobic	85 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9		no data	0 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution 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 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 (noctanol / water), HPLC Method)
2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0	2.3					OECD Guideline 117 (Partition Coefficient (noctanol/water), HPLC Method)
α, α-dimethylbenzyl hydroperoxide 80-15-9		9.1		calculation		OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	2.16					not specified
maleic acid 110-16-7	-1.3				20 °C	OECD Guideline 107 (Partition Coefficient (n- octanol/water), Shake Flask Method)
Acetic acid, 2- phenylhydrazide 114-83-0	0.74					not specified

Section 13. Disposal considerations

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

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:

UN no.: 3082

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (3,3,5-Trimethylcyclohexyl methacrylate)

Class or division:
Packing group:
III
EmS:
F-A ,S-F
Seawater pollutant:
Marine pollutant

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LOCTITE 263 BO50MLEN/CH/JP known as 263 THREADLOCKER 50 ML A/P

Air transport IATA:

UN no.: 3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (3,3,5-

Trimethylcyclohexyl methacrylate)

Class or division: 9
Packing group: III
Packing instructions (passenger) 964
Packing instructions (cargo) 964

Further information for transport:

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed 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

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: 1,2,3

Date of previous issue: 22.01.2015

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