

Safety Data Sheet

LOCTITE 609 BO250ML AU

Page 1 of 11

SDS No.: 153471

V001.5

Date of issue: 21.03.2024

respiratory tract irritation

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

Product name: LOCTITE 609 BO250ML AU

Intended use: Anaerobic Adhesive

Supplier:

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

Australia

Phone: +61 (3) 9724 6444

Emergency Telephone for Chemical Accidents:

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:

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

Target Organ Systemic Toxicant -

Single exposure
Acute hazards to the aquatic Category 3

environment

Hazard pictogram:



Category 3

Signal word: Warning

SDS No.: 153471

LOCTITE 609 BO250ML AU V001.5

> **Hazard statement(s):** H315 Causes skin irritation.

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

H402 Harmful to aquatic life.

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.

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+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.

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

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: Mixture

Type of preparation: Anaerobic Sealant

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
2-Hydroxyethyl methacrylate	868-77-9	10- < 30 %
α, α-dimethylbenzyl hydroperoxide	80-15-9	1-< 3 %
N,N-Diethyl-p-toluidine	613-48-9	< 10 %
methacrylic acid	79-41-4	< 1 %
N,N-dimethyl-o-toluidine	609-72-3	< 10 %
2-Propenoic acid, 2-methyl-, 2-(2-	2351-43-1	< 1 %
hydroxyethoxy)ethyl ester		
non hazardous ingredients~		30- <= 60 %

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.

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

Seek medical advice.

V001.5

Inhalation: Move to fresh air.

Keep warm and in a quiet place.

Seek medical advice.

First Aid facilities: Eve 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

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:

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

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

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)
METHACRYLIC ACID 79-41-4		20	70				

V001.5

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 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

pH: Not applicable, Product is non-polar/aprotic.

Melting point / freezing point: Not applicable, Product is a liquid

Specific gravity: 1.1

Boiling point: $> 150 \, ^{\circ}\text{C} \, (> 302 \, ^{\circ}\text{F})$ Flash point: $> 100 \, ^{\circ}\text{C} \, (> 212 \, ^{\circ}\text{F})$

(Tagliabue closed cup)

Vapor pressure: < 5 mm hg (; 27 °C (80.6 °F); 26 °C (78.8 < 6 mbar °F); 20 °C (68 °F)) < 0.13 mbar

> 1 Vapor density:

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

V001.5

LOCTITE 609 BO250ML AU

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	Value	Route of	Exposure	Species	Method
2-Hydroxyethyl	type	5,564 mg/kg	application oral	time	mot.	FDA Guideline
methacrylate	LD50 LD50	> 5,000 mg/kg	orai		rat rabbit	not specified
868-77-9	LD30	> 5,000 mg/kg	dermal		Tabbit	not specified
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	4 11	Tat	Expert judgement
80-13-9	toxicity	1,100 mg/kg	dermai			Expert judgement
	estimate					
	(ATE)					
N,N-Diethyl-p-toluidine	Acute	100 mg/kg	oral			Expert judgement
613-48-9	toxicity	3 mg/l	inhalation			Expert judgement
013 10 3	estimate	300 mg/kg	dermal			Expert judgement
	(ATE)					p jg
	Acute					
	toxicity					
	estimate					
	(ATE)					
	Acute					
	toxicity					
	estimate					
	(ATE)					
methacrylic acid	LD50	1,320 mg/kg	oral		rat	equivalent or similar to OECD
79-41-4	LC50	> 3.6 mg/l	inhalation	4 h	rat	Guideline 401 (Acute Oral
	Acute	3.61 mg/l	inhalation			Toxicity)
	toxicity	500 - 1,000	dermal		rabbit	OECD Guideline 403 (Acute
	estimate	mg/kg	dermal			Inhalation Toxicity)
	(ATE)	500 mg/kg				Expert judgement
	LD50					Dermal Toxicity Screening
	Acute					Expert judgement
	toxicity					
	estimate					
2727	(ATE)	100 "				
N,N-dimethyl-o-toluidine	Acute	100 mg/kg	oral	4.1		Expert judgement
609-72-3	toxicity	1.5 mg/l	inhalation	4 h		Expert judgement
	estimate (ATE)	300 mg/kg	dermal			Expert judgement
	Acute					
	toxicity					
	estimate					
	(ATE)					
	Acute					
	toxicity		1			
	estimate					
	(ATE)					
2-Propenoic acid, 2-	LD50	5,564 mg/kg	oral		rat	FDA Guideline
methyl-, 2-(2-	LD50	> 5,000 mg/kg	1		rabbit	not specified
hydroxyethoxy)ethyl ester			dermal			_
2351-43-1						

Page 6 of 11

SDS No.: 153471 LOCTITE 609 BO250ML AU

V001.5

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2-Hydroxyethyl methacrylate 868-77-9	slightly irritating	24 h	rabbit	Draize Test
α, α-dimethylbenzyl hydroperoxide 80-15-9	corrosive		rabbit	Draize Test
N,N-Diethyl-p-toluidine 613-48-9	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
methacrylic acid 79-41-4	corrosive	3 min	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-Propenoic acid, 2- methyl-, 2-(2- hydroxyethoxy)ethyl ester 2351-43-1	not irritating	24 h	rabbit	Draize Test

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2-Hydroxyethyl methacrylate 868-77-9	Category 2B (mildly irritating to eyes)		rabbit	Draize Test
methacrylic acid 79-41-4	corrosive		rabbit	Draize Test
2-Propenoic acid, 2- methyl-, 2-(2- hydroxyethoxy)ethyl ester 2351-43-1	irritating		rabbit	Draize Test

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
2-Hydroxyethyl methacrylate 868-77-9	not sensitising	Buehler test	guinea pig	Buehler test
2-Hydroxyethyl methacrylate 868-77-9	sensitising	Guinea pig maximisat ion test	guinea pig	Magnusson and Kligman Method
methacrylic acid 79-41-4	not sensitising	Buehler test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)

Page 7 of 11

SDS No.: 153471 LOCTITE 609 BO250ML AU

V001.5

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
2-Hydroxyethyl methacrylate 868-77-9	negative positive 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)
2-Hydroxyethyl methacrylate 868-77-9	negative negative	oral: gavage oral: gavage		rat Drosophila melanogaster	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) not specified
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		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
methacrylic acid 79-41-4	negative negative	inhalation oral: gavage		mouse mouse	equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus 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	49 ddaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2-Hydroxyethyl methacrylate 868-77-9	NOAEL=0.352 mg/l	inhalation	90 d6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
α, α-dimethylbenzyl hydroperoxide 80-15-9		inhalation: aerosol	6 h/d5 d/w	rat	not specified
methacrylic acid 79-41-4		inhalation	90 d6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

Section 12. Ecological information

General ecological information:

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

LOCTITE 609 BO250ML AU

Ecotoxicity:

H402 Harmful to aquatic life.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
2-Hydroxyethyl methacrylate	LC50	> 100 mg/l	Fish	96 h	Oryzias latipes	OECD Guideline
868-77-9 2-Hydroxyethyl methacrylate 868-77-9	EC50	380 mg/l	Daphnia	48 h	Daphnia magna	203 (Fish, Acute Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute
2-Hydroxyethyl methacrylate 868-77-9	EC50	836 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	Immobilisation Test) OECD Guideline
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:
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	18.84 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
00 13 7						Immobilisation Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	EC50	3.1 mg/l	Algae	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
α, α-dimethylbenzyl hydroperoxide	NOEC	1 mg/l	Algae	72 h	Desmodesmus subspicatus (reported as Scenedesmus	OECD Guideline 201 (Alga, Growth
80-15-9 α, α-dimethylbenzyl hydroperoxide	EC10	70 mg/l	Bacteria	30 min	subspicatus) not specified	Inhibition Test) not specified
80-15-9 N,N-Diethyl-p-toluidine 613-48-9	LC50	78.62 mg/l	Fish	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute
N,N-Diethyl-p-toluidine 613-48-9	EC50	10.34 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
N,N-Diethyl-p-toluidine 613-48-9	EC50	7.42 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
N,N-Diethyl-p-toluidine 613-48-9	EC50	23.69 mg/l	Algae	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
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	NOEC	10 mg/l	Fish	35 d	Danio rerio	OECD Guideline 210 (fish early lite stage toxicity test)
methacrylic acid 79-41-4	EC50	> 130 mg/l	Daphnia	48 h	Daphnia magna	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater
methacrylic acid 79-41-4	NOEC	8.2 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella	Daphnids) OECD Guideline 201 (Alga, Growth
methacrylic acid 79-41-4	EC50	45 mg/l	Algae	72 h	subcapitata) Selenastrum capricornutum (new name: Pseudokirchneriella	
methacrylic acid 79-41-4	EC10	100 mg/l	Bacteria	17 h	subcapitata) Pseudomonas putida	Inhibition Test) DIN 38412, part 8 (Pseudomonas

LOCTITE 609 BO250ML AU

N,N-dimethyl-o-toluidine 609-72-3	LC 50	46 mg/l	Fish	96 h	Fathead minnow (Pimephales promelas)	Zellvermehrungshe mm-Test)
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Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
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	not readily biodegradable.	aerobic	3 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
N,N-Diethyl-p-toluidine 613-48-9	not readily biodegradable.	not specified	1 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
methacrylic acid 79-41-4	readily biodegradable	aerobic	86 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
methacrylic acid 79-41-4	inherently biodegradable	aerobic	100 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
N,N-dimethyl-o-toluidine 609-72-3	not readily biodegradable.		1 %	other guideline:
2-Propenoic acid, 2-methyl-, 2-(2-hydroxyethoxy)ethyl ester 2351-43-1	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
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	1.6				25 °C	OECD Guideline 117 (Partition Coefficient (noctanol / water), HPLC Method)
N,N-Diethyl-p-toluidine 613-48-9	3.7					QSAR (Quantitative Structure Activity Relationship)
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.

SDS No.: 153471

V001.5 LOCTITE 609 BO250ML AU

Page 10 of 11

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

AIIC: All components are listed or are exempt from listing on the Australian Inventory of

Industrial Chemicals or Introduced under AICIS.

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

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

SDS No.: 153471

V001.5

LOCTITE 609 BO250ML AU

Page 11 of 11

Date of previous issue:

27.04.2020

Disclaimer:

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