

Safety Data Sheet

LOCTITE 609 BO250ML AU

Page 1 of 11

SDS No.: 153471

V001.3

Revision: 05.08.2024 printing date: 06.08.2025

IDENTIFICATION OF THE MATERIAL AND SUPPLIER **SECTION 1**

Product name: LOCTITE 609 BO250ML AU

Intended use: Anaerobic Adhesive

Supplier:

Henkel New Zealand Ltd

2 Allens Rd East Tamaki Auckland, 2013 New Zealand

Phone: +64 (9) 272-6710

E-mail address of person responsible for Safety Data

Sheet:

SDSinfo.Adhesive@henkel.com

Emergency Telephone for Chemical Accidents:

24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO). Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

GHS Classification:

Hazard Class	Hazard Category	Target organ

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

Single exposure

Category 3

respiratory tract irritation

Acute hazards to the aquatic

environment

Category 3

Hazard pictogram:



Signal word: Warning SDS No.: 153471 LOCTITE 609 BO250ML AU

V001.3

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.

COMPOSITION/INFORMATION ON INGREDIENTS SECTION 3

General chemical description: Mixture

Type of preparation: Anaerobic Sealant

Identity of ingredients:

Storage:

Chemical ingredients	CAS-No.	Proportion
2-Hydroxyethyl methacrylate	868-77-9	10- < 20 %
α, α-dimethylbenzyl hydroperoxide	80-15-9	1-< 3 %
N,N-Diethyl-p-toluidine	613-48-9	0.1-< 1 %
methacrylic acid	79-41-4	0.1-< 1 %
N,N-dimethyl-o-toluidine	609-72-3	0.1-< 1 %
2-Propenoic acid, 2-methyl-, 2-(2-	2351-43-1	0.1-< 1 %
hydroxyethoxy)ethyl ester		
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.

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

Seek medical advice.

Inhalation: Move to fresh air.

Keep warm and in a quiet place.

Seek medical advice.

SDS No.: 153471 Page 3 of 11 LOCTITE 609 BO250ML AU

V001.3

First Aid facilities:

Normal washroom facilities

Medical attention and special

treatment:

Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Carbon dioxide, foam, powder Suitable extinguishing media:

Decomposition products in case of

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

fire:

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

Ensure adequate ventilation. Personal precautions:

Avoid skin and eye contact.

Wear appropriate personal protective equipment.

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

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.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Ceiling	STEL (ppm)	STEL (mg/m3)
METHACRYLIC ACID		20	70	-	-	-
79-41-4						

Biological Exposure Indices:

None

V001.3

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.

PHYSICAL AND CHEMICAL PROPERTIES **SECTION 9.**

Appearance: Green Liquid

Odor: Mild

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

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

Specific gravity:

> 150 °C (> 302 °F) **Boiling point:** > 100 °C (> 212 °F) Flash point:

(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

Vapor density: > 1

Density: 1.1 g/cm3 Solubility in water: Slightly soluble **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

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	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
2-Hydroxyethyl	LD50	5,564 mg/kg	oral		rat	FDA Guideline
methacrylate	LD50	> 5,000 mg/kg			rabbit	not specified
868-77-9			dermal			
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,N-Diethyl-p-toluidine	Acute	100 mg/kg	oral			Expert judgement
613-48-9	toxicity	3 mg/l	inhalation			Expert judgement
	estimate	300 mg/kg	dermal			Expert judgement
	(ATE)					
	Acute					
	toxicity					
	estimate					
	(ATE)					
	Acute					
	toxicity estimate					
methacrylic acid	(ATE) LD50	1,320 mg/kg	oral		rat	equivalent or similar to OECD
79-41-4	LC50	3.19 - 6.5 mg/l	inhalation	4 h	rat	Guideline 401 (Acute Oral
/9-41-4	Acute	3.19 - 0.3 Hig/I 3.19 mg/l	inhalation	4 11	Tat	Toxicity)
	toxicity	500 - 1,000	dermal		rabbit	equivalent or similar to OECD
	estimate	mg/kg	dermal		labbit	Guideline 403 (Acute
	(ATE)	500 mg/kg	dermai			Inhalation Toxicity)
	LD50	300 mg ng				Expert judgement
	Acute					Dermal Toxicity Screening
	toxicity					Expert judgement
	estimate					
	(ATE)					
N,N-dimethyl-o-toluidine	Acute	100 mg/kg	oral			Expert judgement
609-72-3	toxicity	0.5 mg/l	inhalation	4 h		Expert judgement
	estimate	300 mg/kg	dermal			Expert judgement
	(ATE)					
	Acute					
	toxicity					
	estimate					
	(ATE)					
	Acute					
	toxicity					
	estimate					
	(ATE)					
2-Propenoic acid, 2-	LD50	5,564 mg/kg	oral		rat	FDA Guideline
methyl-, 2-(2-	LD50	> 5,000 mg/kg			rabbit	not specified
hydroxyethoxy)ethyl ester			dermal			
2351-43-1		l			l	

Page 6 of 11

LOCTITE 609 BO250ML AU

V001.3

SDS No.: 153471

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)

V001.3

SDS No.: 153471

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.

Page 8 of 11

Ecotoxicity:

H402 Harmful to aquatic life.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity	Exposure time	Species	Method
			Study			
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
2-Hydroxyethyl methacrylate 868-77-9	EC50	836 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella	
2-Hydroxyethyl methacrylate 868-77-9	NOEC	400 mg/l	Algae	72 h	subcapitata) Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	Inhibition Test) OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Hydroxyethyl methacrylate 868-77-9	EC0	> 3,000 mg/l	Bacteria	16 h	Pseudomonas fluorescens	other guideline:
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
						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
N,N-Diethyl-p-toluidine 613-48-9	EC50	23.69 mg/l	Algae	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	Test) OECD Guideline 201 (Alga, Growth Inhibition Test)
methacrylic acid 79-41-4	LC50	85 mg/l	Fish	96 h		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		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
methacrylic acid 79-41-4	EC10	100 mg/l	Bacteria	17 h	subcapitata) Pseudomonas putida	Inhibition Test) DIN 38412, part 8 (Pseudomonas Zellvermehrungshe
N,N-dimethyl-o-toluidine	LC50	46 mg/l	Fish	96 h	Pimephales promelas	mm-Test) OECD Guideline

SDS No.: 153471

V001.3

LOCTITE 609 BO250ML AU

609-72-3			203 (Fish, Acute
	l l	I	Toxicity Test)

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.	aerobic	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	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
2-Hydroxyethyl methacrylate	0.42				25 °C	OECD Guideline 107
868-77-9						(Partition Coefficient (n-
						octanol / water), Shake
						Flask Method)
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,N-Diethyl-p-toluidine	3.7					QSAR (Quantitative
613-48-9						Structure Activity
						Relationship)
methacrylic acid	0.93				22 °C	OECD Guideline 107
79-41-4						(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.

SDS No.: 153471 Page 10 of 11 LOCTITE 609 BO250ML AU

SECTION 14. TRANSPORT INFORMATION

Dangerous Goods information:

Land Transport:

Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

New Zealand regulatory information:

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

HSNO Approval Number: HSR002670

Site and Storage: Refer to the site and storage requirements for this Group Standard.

NZIoC: Compliant for NZIoC

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: CAS: Chemical Abstracts Service

GHS: Globally Harmonized System

HSNO - Hazardous Substances and New Organisms 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 SDS No.: 153471

V001.3

LOCTITE 609 BO250ML AU

Page 11 of 11

Date of previous issue:

07.06.2023

Disclaimer:

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel New Zealand 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 New Zealand Limited concerning the properties of the material.

The information contained in this Safety Data Sheet is offered in good faith and has been developed from what is believed to be accurate and reliable sources. The information is offered without warranty, representation, inducement or licence and Henkel New Zealand Limited assumes no legal responsibility for reliance upon same. Henkel New Zealand Limited disclaims any liability for loss, injury or damage incurred in connection with the use of the material or its associated Safety Data Sheet.

This information is not to be construed as a representation that the material is suitable for any particular purpose or use except those conditions and warranties implied by Government statutes. Customers are encouraged to make their own enquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use.

No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.