

LOCTITE 577

Safety Data Sheet

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SDS No.: 168431

V001.4

Date of issue: 18.01.2018

respiratory tract irritation

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

Product name: LOCTITE 577

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:

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

Skin sensitizer Category 1
Target Organ Systemic Toxicant - Category 3

Single exposure

Serious Eye Damage/Eye Irritation Category 2 Skin corrosion/irritation Category 2

Hazard pictogram:

Signal word: Warning

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

H335 May cause respiratory irritation.

H315 Causes skin irritation. H319 Causes serious eye irritation.

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.

P280 Wear protective gloves.

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.
P312 Call a poison control center or physician if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

P362 Take off contaminated clothing.

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, and product characteristics at time of

disposal.

Classification of material Xi - Irritant

Risk phrases:

R43 May cause sensitisation by skin contact.

R36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases:

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39 Wear suitable gloves and eye/face protection.

S46 If swallowed, seek medical advice immediately and show this container or label.

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

Type of preparation: Anaerobic Sealant

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Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Lauryl methacrylate	142-90-5	< 10 %
Hexadecyl methacrylate	2495-27-4	< 5 %
Tetradecyl methacrylate	2549-53-3	< 5 %
Acetic acid, 2-phenylhydrazide	114-83-0	< 1 %
Maleic acid	110-16-7	< 1 %
Cumene hydroperoxide	80-15-9	< 0.5 %
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, symptomatic treatment.

Skin: Rinse with running water and soap.

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

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

open. Consult a doctor.

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.

Section 5. Fire fighting measures

Suitable extinguishing media: Carbon dioxide, foam, powder

Improper extinguishing media: Water spray jet

Decomposition products in case of

fire::

Thermal decomposition may release toxic and/or hazardous gases. Carbon dioxide.

carbon monoxide Irritating fumes.

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

Special protective equipment for

fire-fighters:

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

Wear full protective clothing.

Section 6. Accidental release measures

Personal precautions: Avoid skin and eye contact.

Ensure adequate ventilation.

Wear adequate personal protective clothing and equipment.

Keep unnecessary personnel away.

Environmental precautions: Do not allow spill to enter sewage systems or open bodies of 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.

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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 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	TWA (ppm)	TWA	Peak Limit.		STEL (ppm)	
	exposure		(mg/m3)	(ppm)	(mg/m3)		(mg/m3)
PROPANE-1,2-DIOL: PARTICULATES ONLY 57-55-6	Particulate.		10	-	-	_	_
PROPANE-1,2-DIOL: TOTAL (VAPOUR & PARTICULATES) 57-55-6	Total vapour and particulates.	150	474	-	-	_	-

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

limits.

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

Appearance: dark yellow paste

Odor: mild pH: 3 - 6 Specific gravity: 1.15 - 1.2

Boiling point: > 149 °C (> 300.2 °F) **Flash point:** > 100 °C (> 212 °F)

(Pensky Martens closed cup)

Vapor pressure: < 5 mm hg

(; 27 °C (80.6 °F))

Density: 1.15 - 1.20 g/cm³

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Section 10. Stability and reactivity

Conditions to avoid: Extremes of temperature.

Incompatible materials: Reacts with strong oxidants.

Will attack some forms of plastic, rubber, and coatings.

Hazardous decomposition

products:

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

carbon monoxide carbon dioxide

Hazardous polymerization: Will not occur.

Section 11. Toxicological information

Health Effects:

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

Skin: Causes skin irritation.

Contact with liquid may produce severe skin irritation including redness and inflammation.

May cause allergic skin reaction.

Eyes: Causes serious eye irritation.

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

Inhalation: This product is irritating to the respiratory system.

Inhalation of product mist 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		
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			
Cumene hydroperoxide	LD50	550 mg/kg	oral		rat	not specified
80-15-9	LD50	1,200 - 1,520				not specified
		mg/kg	dermal			

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Maleic acid	irritating	24 h	human	Patch Test
Cumene hydroperoxide 80-15-9	corrosive		rabbit	Draize Test

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Maleic acid	highly irritating		rabbit	OECD Guideline 405 (Acute
110-16-7				Eye Irritation / Corrosion)

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Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
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
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)
Cumene hydroperoxide 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Cumene hydroperoxide 80-15-9	negative	dermal		mouse	not specified

Repeated dose toxicity:

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

Section 12. Ecological information

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General ecological information:

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

Toxicity:

Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity Study	time		
Maleic acid 110-16-7	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	/
Cumene hydroperoxide 80-15-9	LC50	3.9 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cumene hydroperoxide 80-15-9	EC 50	7 mg/l	Daphnia	24 h	Water flea (Daphnia magna)	
Cumene hydroperoxide 80-15-9	EC50	18 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cumene hydroperoxide 80-15-9	ErC50	3.1 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	,
Cumene 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
Maleic acid 110-16-7	readily biodegradable	aerobic	97.08 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Cumene hydroperoxide 80-15-9		no data	0 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution

Bioaccumulative potential / Mobility in soil:

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

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Section 13. Disposal considerations

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

Recommended cleanser: Solvent naphtha

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).

General information:

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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: ASCC - Australian Safety and Compensation Council

STEL - Short term exposure limit TWA - Time weighted average

IMDG: International Maritime Dangerous Goods code

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

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Disclaimer:

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