

Safety Data Sheet

LOCTITE 222

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SDS No.: 153481 V001.4 Date of issue: 17.01.2020

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

Product name:

Intended use:

LOCTITE 222 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 Category	<u>Target organ</u>
Category 2A	
Category 3	respiratory tract irritation
Category 3	
Category 3	
(!)	
	Category 2A Category 3 Category 3

Signal word:

v Warning

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.
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: Type of preparation: Mixture Methacrylate resin based threadlocker

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
α , α -dimethylbenzyl hydroperoxide	80-15-9	< 3%
Propane-1,2-diol	57-55-6	< 5%
non hazardous ingredients~		60 %

Ingestion:	Rinse mouth, do not induce vomiting, consult a doctor.
Skin:	Wash skin with water In case of adverse health effects seek medical advice.
Eyes:	Flush eyes with plenty of water for at least 5 minutes. If irritation persists seek medica attention.
Inhalation:	Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.
First Aid facilities:	Eye wash Normal washroom facilities

Suitable extinguishing media:

Foam, dry chemical or carbon dioxide.

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

Personal precautions:	Avoid skin and eye contact.
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:	Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. Use only with adequate ventilation. See advice in section 8			
Conditions for safe storage:	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Store in original container until ready to use.			

Section 8. Exposure controls / personal protection

National exposure standards:	
Engineering controls:	No specific ventilation requirements noted, but forced ventilation may still be required if concentrations exceed occupational 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:

Odor: Specific gravity: Purple Liquid mild 1.05

> 149.0 °C (> 300.2 °F) > 93.3 °C (> 199.94 °F)
1.0800 g/cm3
Section 10. Stability and reactivity
See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).
Strong alkalis. Reducing agents. Strong oxidizing agents. Acids.
Irritating and toxic gases or fumes may be released during a fire.
Oxides of sulfur.
Oxides of nitrogen.
Oxides of carbon.
Will not occur.

Section 11. Toxicological information

Health Effects:	
Ingestion:	May cause mild gastrointestinal irritation with nausea, vomiting, diarrhea and abdominal pain.
Skin:	May cause mild skin irritation.
Eyes:	Contact with eyes will cause irritation.
Inhalation:	May cause respiratory tract irritation.

Acute toxicity:

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

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
α, α-dimethylbenzyl hydroperoxide 80-15-9	corrosive		rabbit	Draize Test
Propane-1,2-diol 57-55-6	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Propane-1,2-diol 57-55-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Propane-1,2-diol	not sensitising	Guinea pig	guinea pig	equivalent or similar to OECD
57-55-6		maximisat		Guideline 406 (Skin
		ion test		Sensitisation)

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
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

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
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

Section 12. Ecological information

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

Toxicity:

Value type	Value	Acute Toxicity	Exposure time	Species	Method
		Study			
LC50	3.9 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline
					203 (Fish, Acute
					Toxicity Test)
EC50	18 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
					202 (Daphnia sp.
					Acute Immobilisation
					Test)
ErC50	3.1 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	,
	6	0			201 (Alga, Growth
					Inhibition Test)
EC10	70 mg/l	Bacteria	30 min		not specified
1.050	10.000 /	F 1	40.1	. ,	DB1 20412 15
LC50	> 10,000 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
EC50	18 3/0 mg/l	Danhnia	48 h	Ceriodanhnia dubia	other guideline:
LC50	10,540 mg/1	Dapinna	40 11	Ceriodapinna dubia	other guidenne.
EC50	24,200 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline
		U		1	201 (Alga, Growth
					Inhibition Test)
NOEC	15,000 mg/l	Algae	14 d	Pseudokirchneriella subcapitata	
					201 (Alga, Growth
EC.50	. 1.000 /1	D ('	21		Inhibition Test)
EC50	> 1,000 mg/I	Bacteria	3 n	activated sludge	OECD Guideline 209 (Activated
					Sludge, Respiration
					Inhibition Test)
	type LC50 EC50 ErC50 Ec10 LC50 EC50	type LC50 3.9 mg/l EC50 18 mg/l ErC50 3.1 mg/l EC10 70 mg/l LC50 > 10,000 mg/l EC50 18,340 mg/l EC50 24,200 mg/l NOEC 15,000 mg/l	type Toxicity Study LC50 3.9 mg/l Fish EC50 18 mg/l Daphnia ErC50 3.1 mg/l Algae EC10 70 mg/l Bacteria LC50 18,340 mg/l Daphnia EC50 18,340 mg/l Algae NOEC 15,000 mg/l Algae	type Toxicity Study time LC50 3.9 mg/l Fish 96 h EC50 18 mg/l Daphnia 48 h ErC50 3.1 mg/l Algae 72 h Ec10 70 mg/l Bacteria 30 min LC50 > 10,000 mg/l Fish 48 h EC50 18,340 mg/l Daphnia 48 h EC50 24,200 mg/l Algae 72 h NOEC 15,000 mg/l Algae 14 d	typeToxicity StudytimeLC503.9 mg/lFish96 hOncorhynchus mykissEC5018 mg/lDaphnia48 hDaphnia magnaErC503.1 mg/lAlgae72 hPseudokirchneriella subcapitataEC1070 mg/lBacteria30 minLC50> 10,000 mg/lFish48 hLeuciscus idusEC5018,340 mg/lDaphnia48 hCeriodaphnia dubiaEC5024,200 mg/lAlgae72 hPseudokirchneriella subcapitataNOEC15,000 mg/lAlgae14 dPseudokirchneriella subcapitataEC50> 1,000 mg/lBacteria3 hactivated sludge

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
α, α-dimethylbenzyl hydroperoxide 80-15-9		no data	0 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Propane-1,2-diol 57-55-6	not inherently biodegradable	aerobic	60 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
Propane-1,2-diol 57-55-6	readily biodegradable	aerobic	> 70 %	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
α, α-dimethylbenzyl		9.1		calculation		OECD Guideline 305
hydroperoxide						(Bioconcentration: Flow-
80-15-9						through Fish Test)
α, α-dimethylbenzyl	2.16					not specified
hydroperoxide						-
80-15-9						
Propane-1,2-diol	-1.07				20.5 °C	EU Method A.8 (Partition
57-55-6						Coefficient)

Section 13. Disposal considerations

Waste disposal of product:

Dispose of in accordance with local and national regulations.

Reason for issue:

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Disposal for uncleaned package:	After use, tubes, cartons and bottles containing residual product should be disposed of a 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
	Section 16. Other information
Abbreviations/acronyms:	ADGC - Australian Dangerous Goods Code ASCC - Australian Safety and Compensation Council
	GHS: Globally Harmonized System
	IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
	IMDG: International Maritime Dangerous Goods code STEL - Short term exposure limit
	SUSDP - Standard for the Uniform Medicines of Drugs and Poisons
	TWA - Time weighted average

Reviewed SDS. Reissued with new date. involved chapters: 2

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