Safety Data Sheet

LOCTITE 222 LOW STRENGTH THREADLOCKER known as Loctite 222 10ML AU

MSDS-No. : 153481
V001.3
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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE 222 LOW STRENGTH THREADLOCKER known as Loctite 222 10ML 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 ASCC.

GHS Classification:

Hazard Class	Hazard Category	Target organ
Serious eye irritation	Category 2A	
Target Organ Systemic Toxicant - Single exposure	Category 3	respiratory tract irritation
Chronic hazards to the aquatic environment	Category 3	

Hazard pictogram:

Signal word: 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 remove. 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, and product characteristics at time of disposal.

Classification of material Xi - Irritant

Risk phrases:
R36/37 Irritating to eyes and respiratory system.

Safety phrases:
S23 Do not breathe vapour.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36 Wear suitable protective clothing.
S51 Use only in well-ventilated areas.

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: Methacrylate resin based threadlocker

Identity of ingredients:

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

Section 4. First aid measures

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 medical 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

Section 5. Fire fighting measures

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.

Section 6. Accidental release measures

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:

Ingredient	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (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:	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:	Purple Liquid
Odor:	mild
Specific gravity:	1.05
Boiling point:	> 149.0 °C (> 300.2 °F)
Flash point: (Tagliabue closed cup)	> 93.3 °C (> 199.94 °F)
Density:	1.0800 g/cm3

Section 10. Stability and reactivity

Conditions to avoid:	See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).
Incompatible materials:	Strong alkalis. Reducing agents. Strong oxidizing agents. Acids.
Hazardous decomposition products:	Irritating and toxic gases or fumes may be released during a fire. Oxides of sulfur. Oxides of nitrogen. Oxides of carbon.
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: 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
Cumene hydroperoxide 80-15-9	LD50	550 mg/kg	oral		rat	
Propane-1,2-diol 57-55-6	LD50 LD50	> 22,000 mg/kg > 2,000 mg/kg	oral dermal		rat rabbit	

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Cumene hydroperoxide 80-15-9	corrosive		rabbit	Draize Test
Propane-1,2-diol 57-55-6	not irritating		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)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
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	
Propane-1,2-diol 57-55-6	negative negative negative	bacterial reverse mutation assay (e.g Ames test) bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	without with and without with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Cumene hydroperoxide 80-15-9		inhalation: aerosol	6 h/d5 d/w	rat	
Propane-1,2-diol 57-55-6	NOAEL=1 mg/l	inhalation	90 days6 hours/day, 5 days/week	rat	
Propane-1,2-diol 57-55-6	NOAEL=50000 ppm	oral: feed	2 yearsdaily	rat	

Section 12. Ecological information

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

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
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	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	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Propane-1,2-diol 57-55-6	LC50	> 10,000 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
Propane-1,2-diol 57-55-6	EC50	34,400 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Propane-1,2-diol 57-55-6	EC50	19,000 mg/l	Algae	14 d	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Propane-1,2-diol 57-55-6	NOEC	15,000 mg/l	Algae	14 d	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Cumene hydroperoxide 80-15-9		no data	0 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution 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 CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Cumene hydroperoxide 80-15-9		9.1		calculation		OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Cumene hydroperoxide 80-15-9	2.16					
Propane-1,2-diol 57-55-6	-0.92					

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).

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:	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 Scheduling of Drugs and Poisons TWA - Time weighted average
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Disclaimer:

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