



## Safety Data Sheet

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

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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:**

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

**Hazard pictogram:**



**Signal word:** Warning

|                                    |   |
|------------------------------------|---|
| <b>Hazard statement(s):</b>        | H319 Causes serious eye irritation.<br>H335 May cause respiratory irritation.<br>H412 Harmful to aquatic life with long lasting effects.  |
| <b>Precautionary Statement(s):</b> |   |
| <b>Prevention:</b>                 | P261 Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264 Wash hands thoroughly after handling.<br>P271 Use only outdoors or in a well-ventilated area.<br>P273 Avoid release to the environment.<br>P280 Wear eye protection/face protection.   |
| <b>Response:</b>                   | 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.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.<br>P337+P313 If eye irritation persists: Get medical advice/attention. |
| <b>Storage:</b>                    | P403+P233 Store in a well-ventilated place. Keep container tightly closed.<br>P405 Store locked up.   |
| <b>Disposal:</b>                   | 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<br>57-55-6             | Particulate.                   |           | 10          | -                 | -                   | -          | -            |
| PROPANE-1,2-DIOL: TOTAL (VAPOUR & PARTICULATES)<br>57-55-6 | Total vapour and particulates. | 150       | 474         | -                 | -                   | -          | -            |

|                                |  |
|--------------------------------|--|
| <b>Engineering controls:</b>   | No specific ventilation requirements noted, but forced ventilation may still be required if concentrations exceed occupational exposure limits.                        |
| <b>Eye protection:</b>         | Safety goggles or safety glasses with side shields.  |
| <b>Skin protection:</b>        | Use impermeable gloves and protective clothing as necessary to prevent skin contact.<br><br>Neoprene gloves.<br><br>Butyl rubber gloves.<br><br>Natural rubber gloves. |
| <b>Respiratory protection:</b> | 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

|   |                          |
|---|--------------------------|
| <b>Appearance:</b>                            | Purple<br>Liquid         |
| <b>Odor:</b>                                  | mild                     |
| <b>Specific gravity:</b>                      | 1.05                     |
| <b>Boiling point:</b>                         | > 149.0 °C (> 300.2 °F)  |
| <b>Flash point:</b><br>(Tagliabue closed cup) | > 93.3 °C (> 199.94 °F)  |
| <b>Density:</b>                               | 1.0800 g/cm <sup>3</sup> |

### Section 10. Stability and reactivity

|  |   |
|--|---|
| <b>Conditions to avoid:</b>              | See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).  |
| <b>Incompatible materials:</b>           | Strong alkalis.<br>Reducing agents.<br>Strong oxidizing agents.<br>Acids.   |
| <b>Hazardous decomposition products:</b> | Irritating and toxic gases or fumes may be released during a fire.<br><br>Oxides of sulfur.<br>Oxides of nitrogen.<br>Oxides of carbon. |
| <b>Hazardous polymerization:</b>         | 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<br>CAS-No. | Value<br>type | Value                           | Route of<br>application | Exposure<br>time | Species       | Method |
|---------------------------------|---------------|---------------------------------|-------------------------|------------------|---------------|--------|
| Cumene hydroperoxide<br>80-15-9 | LD50          | 550 mg/kg                       | oral                    |                  | rat           |        |
| Propane-1,2-diol<br>57-55-6     | LD50<br>LD50  | > 22,000 mg/kg<br>> 2,000 mg/kg | oral<br>dermal          |                  | rat<br>rabbit |        |

**Skin corrosion/irritation:**

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

**Serious eye damage/irritation:**

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

**Germ cell mutagenicity:**

| Hazardous components<br>CAS-No. | Result                           | Type of study /<br>Route of<br>administration   | Metabolic<br>activation /<br>Exposure time      | Species | Method   |
|---------------------------------|----------------------------------|---|---|---------|--|
| Cumene hydroperoxide<br>80-15-9 | positive                         | bacterial reverse<br>mutation assay (e.g<br>Ames test)  | without   |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
| Cumene hydroperoxide<br>80-15-9 | negative                         | dermal  |   | mouse   |  |
| Propane-1,2-diol<br>57-55-6     | negative<br>negative<br>negative | bacterial reverse<br>mutation assay (e.g<br>Ames test)<br>bacterial reverse<br>mutation assay (e.g<br>Ames test)<br>in vitro mammalian<br>chromosome<br>aberration test | without<br>with and without<br>with and without |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |

**Repeated dose toxicity:**

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

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

**Toxicity:**

| Hazardous components<br>CAS-No. | Value<br>type | Value         | Acute<br>Toxicity<br>Study | Exposure<br>time | Species  | Method  |
|---------------------------------|---------------|---------------|----------------------------|------------------|--|---|
| Cumene hydroperoxide<br>80-15-9 | LC50          | 3.9 mg/l      | Fish                       | 96 h             | Oncorhynchus mykiss  | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                    |
| Cumene hydroperoxide<br>80-15-9 | EC50          | 18 mg/l       | Daphnia                    | 48 h             | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test)  |
| Cumene hydroperoxide<br>80-15-9 | ErC50         | 3.1 mg/l      | Algae                      | 72 h             | Pseudokirchnerella subcapitata   | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)<br>DIN 38412-15 |
| Propane-1,2-diol<br>57-55-6     | LC50          | > 10,000 mg/l | Fish                       | 48 h             | Leuciscus idus   |   |
| Propane-1,2-diol<br>57-55-6     | EC50          | 34,400 mg/l   | Daphnia                    | 48 h             | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test)  |
| Propane-1,2-diol<br>57-55-6     | EC50          | 19,000 mg/l   | Algae                      | 14 d             | Selenastrum capricornutum<br>(new name: Pseudokirchnerella<br>subcapitata) | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                 |
| Propane-1,2-diol<br>57-55-6     | NOEC          | 15,000 mg/l   | Algae                      | 14 d             | Selenastrum capricornutum<br>(new name: Pseudokirchnerella<br>subcapitata) | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                 |

**Persistence and degradability:**

| Hazardous components<br>CAS-No. | Result                | Route of<br>application | Degradability | Method   |
|---------------------------------|-----------------------|-------------------------|---------------|--|
| Cumene hydroperoxide<br>80-15-9 |                       | no data                 | 0 %           | OECD Guideline 301 B (Ready<br>Biodegradability: CO2 Evolution<br>Test)              |
| Propane-1,2-diol<br>57-55-6     | readily biodegradable | aerobic                 | > 70 %        | OECD Guideline 301 A (new<br>version) (Ready Biodegradability:<br>DOC Die Away Test) |

**Bioaccumulative potential / Mobility in soil:**

| Hazardous components<br>CAS-No. | LogKow | Bioconcentration<br>factor (BCF) | Exposure<br>time | Species     | Temperature | Method   |
|---------------------------------|--------|----------------------------------|------------------|-------------|-------------|--|
| Cumene hydroperoxide<br>80-15-9 |        | 9.1                              |                  | calculation |             | OECD Guideline 305<br>(Bioconcentration: Flow-<br>through Fish Test) |
| Cumene hydroperoxide<br>80-15-9 | 2.16   |                                  |                  |             |             |  |
| Propane-1,2-diol<br>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

**Reason for issue:**

Reviewed SDS. Reissued with new date. involved chapters: 2,3,4,8,10,11,13,16

**Date of previous issue:**

26.07.2013

**Disclaimer:**

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