

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### 1.1 Product identifier

**Product name** LOCTITE LOW STRENGTH THREAD LOCKER 222  
**Synonym(s)** NSN: 8030-01-069-3046 • NSN: 8030-66-091-3419  
22220, 19370, 22250, 22270 - PART NUMBER(S) • LOCTITE 222 SCREW LOCK • LOCTITE 222  
THREADLOCKER 50ML (FORMERLY) • LOCTITE SCREW LOCK 222 • LOCTITE SUPER SCREW LOCK •  
SCREW LOCK 222

### 1.2 Uses and uses advised against

**Use(s)** ANAEROBIC SEALANT • FASTENING AGENT • LOCK AND SEAL THREADED FASTENERS • SCREW  
LOCKING COMPOUND

### 1.3 Details of the supplier of the safety data sheet

**Supplier name** HENKEL AUSTRALIA PTY LTD  
**Address** 135 - 141 Canterbury Road, Kilsyth, Victoria, Australia, 3137  
**Telephone** (03) 9724 6444  
**Fax** (03) 9728 5877  
**Email** msds@au.henkel.com  
**Website** <http://www.loctite.com.au>

### 1.4 Emergency telephone number(s)

**Emergency** 1800 032 379; (03) 9724 6556

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**GHS Classification(s)** Serious Eye Damage / Eye Irritation: Category 2A  
Specific Target Organ Systemic Toxicity (Single Exposure): Category 3  
Aquatic Toxicity (Chronic): Category 3

### 2.2 Label elements

**Signal word** WARNING

**Pictograms**



### Hazard statement(s)

H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

### Prevention statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment. This statement does not apply where this is the intended use.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

### Response statement(s)

P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
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 CENTER or doctor/physician if you feel unwell.  
P337 + P313 If eye irritation persists: Get medical advice/attention.

### Storage statement(s)

<b>Product name</b>	<b>LOCTITE LOW STRENGTH THREAD LOCKER 222</b>
P403 + P233	Store in a well-ventilated place. Keep container tightly closed (applies if the substance is volatile so as to generate a hazardous atmosphere).
P405	Store locked up.
<b>Disposal statement(s)</b>	
P501	Dispose of contents/container in accordance with relevant regulations.

**2.3 Other Hazards**

No information provided.

**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

**3.1 Substances / Mixtures**

Ingredient	CAS number	EC number	Content
CUMENE HYDROPEROXIDE	80-15-9	201-254-7	<3%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	>60%
PROPYLENE GLYCOL (PROPANE-1,2-DIOL)	57-55-6	200-338-0	<5%

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

<b>Eye</b>	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
<b>Inhalation</b>	If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
<b>Ingestion</b>	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
<b>First aid facilities</b>	Eye wash facilities and safety shower should be available.

**4.2 Most important symptoms and effects, both acute and delayed**

No information provided.

**4.3 Immediate medical attention and special treatment needed**

Treat symptomatically.

**5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

**5.2 Special hazards arising from the substance or mixture**

Combustible. May evolve carbon oxides and hydrocarbons when heated to decomposition. May evolve nitrogen oxides and sulphur oxides when heated to decomposition.

**5.3 Advice for firefighters**

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**5.4 Hazchem code**

None allocated

**6. ACCIDENTAL RELEASE MEASURES**

**Product name** LOCTITE LOW STRENGTH THREAD LOCKER 222

## 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

## 6.2 Environmental precautions

Prevent product from entering drains and waterways.

## 6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Only trained personnel should undertake clean up.

## 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation and fire protection systems. Store as a Class C1 Combustible Liquid (AS1940).

### 7.3 Specific end use(s)

No information provided.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure standards

Substance	Reference	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Propane-1,2-diol (particulates only)	SWA (AUS)	--	10	--	--
Propane-1,2-diol (total vapour & particulates)	SWA (AUS)	150	474	--	--

#### Biological limits

No biological limit values have been entered for this product.

### 8.2 Exposure controls

#### Engineering Controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

#### PPE

- Eye/Face** Wear splash-proof goggles.
- Hand** Wear neoprene or butyl or nitrile gloves.
- Body** When using large quantities or where heavy contamination is likely, wear a PVC apron.
- Respiratory** No PPE specified.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance** PURPLE LIQUID  
**Odour** MILD ODOUR

<b>Product name</b>	<b>LOCTITE LOW STRENGTH THREAD LOCKER 222</b>
<b>Odour Threshold</b>	NOT AVAILABLE
<b>pH</b>	NOT AVAILABLE
<b>Melting Point</b>	NOT AVAILABLE
<b>Boiling Point</b>	> 149°C
<b>Flash Point</b>	> 93.3°C
<b>Evaporation Rate</b>	NOT AVAILABLE
<b>Flammability</b>	CLASS C1 COMBUSTIBLE
<b>Upper Explosion Limit</b>	NOT AVAILABLE
<b>Lower Explosion Limit</b>	NOT AVAILABLE
<b>Vapour Pressure</b>	NOT AVAILABLE
<b>Vapour Density</b>	NOT AVAILABLE
<b>Solubility (water)</b>	SLIGHTLY SOLUBLE
<b>Partition Coefficient</b>	NOT AVAILABLE
<b>Autoignition Temperature</b>	NOT AVAILABLE
<b>Decomposition Temperature</b>	NOT AVAILABLE
<b>Viscosity</b>	NOT AVAILABLE
<b>Explosive Properties</b>	NOT AVAILABLE
<b>Oxidising Properties</b>	NOT AVAILABLE
<b>Specific Gravity</b>	1.05
<b><u>9.2 Other information</u></b>	
<b>% Volatiles</b>	NOT AVAILABLE

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## 10. STABILITY AND REACTIVITY

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### **10.1 Reactivity**

Carefully review all information in sections 10.2 to 10.6.

### **10.2 Chemical stability**

Stable under recommended conditions of storage.

### **10.3 Possibility of hazardous reactions**

May polymerise with violent rupture/explosion.

### **10.4 Conditions to avoid**

Avoid heat, sparks, open flames and other ignition sources.

### **10.5 Incompatible materials**

May polymerise in contact with oxidising agents (e.g. nitrates), acids (e.g. nitric acid), amines, UV light, alkalis (e.g. sodium hydroxide), or if heated. Polymerisation may generate heat with potential for fire-explosion. Incompatible with alkalis (e.g. sodium hydroxide) and reducing agents (e.g. sulphites).

### **10.6 Hazardous decomposition products**

May evolve carbon oxides and hydrocarbons when heated to decomposition.

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## 11. TOXICOLOGICAL INFORMATION

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### **11.1 Information on toxicological effects**

<b>Health hazard summary</b>	Harmful - irritant. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and inhalation. May cause sensitisation by skin contact. Due to the small product size, the potential for adverse health effects may be reduced.
<b>Eye</b>	Irritant. Contact may result in irritation, lacrimation, pain and redness. May result in burns with prolonged contact.

<b>Product name</b>	<b>LOCTITE LOW STRENGTH THREAD LOCKER 222</b>
<b>Inhalation</b>	Irritant. Over exposure may result in mucous membrane irritation of the respiratory tract, coughing, weakness, nausea, vomiting and headache. High level exposure may result in dizziness, drowsiness, respiratory tract inflammation and breathing difficulties.
<b>Skin</b>	Irritant. Contact may result in drying and defatting of the skin, rash and dermatitis. May be absorbed through skin with harmful effects. May cause sensitisation by skin contact.
<b>Ingestion</b>	Harmful. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, dizziness and drowsiness. Aspiration or inhalation may cause chemical pneumonitis and pulmonary oedema.
<b>Toxicity data</b>	<p><b>CUMENE HYDROPEROXIDE (80-15-9)</b>                      LC50 (Inhalation): 200 ppm/4 hours (mouse)                      LD50 (Ingestion): 382 mg/kg (rat)                      LD50 (Intraperitoneal): 95 mg/kg (rat)                      LD50 (Skin): 500 mg/kg (rat)                      LD50 (Subcutaneous): 392 mg/kg (rat)                      LDLo (Ingestion): 5000 mg/kg (mouse)                      LDLo (Skin): 1200 mg/kg (rabbit)</p> <p><b>PROPYLENE GLYCOL (PROPANE-1,2-DIOL) (57-55-6)</b>                      LD50 (Ingestion): &gt; 2080 mg/kg (quail)                      LD50 (Intraperitoneal): 6660 mg/kg                      LD50 (Intravenous): 2600 mg/kg (dog)                      LD50 (Skin): 20800 mg/kg (rabbit)                      LD50 (Subcutaneous): 17370 mg/kg (mouse)                      LDLo (Intramuscular): 6300 mg/kg (rabbit)                      LDLo (Subcutaneous): 15500 mg/kg (guinea pig)                      TDLo (Ingestion): 79 g/kg/56 weeks intermittently (child)</p>

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**12.2 Persistence and degradability**

No information provided.

**12.3 Bioaccumulative potential**

No information provided.

**12.4 Mobility in soil**

No information provided.

**12.5 Results of PBT and vPvB assessment**

No information provided.

**12.6 Other adverse effects**

No information provided.

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Waste disposal** For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information if disposing of large quantities (if required). Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.

**Legislation** Dispose of in accordance with relevant local legislation.

**14. TRANSPORT INFORMATION**

**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA**

	<b>Land Transport (ADG)</b>	<b>Sea Transport (IMDG/IMO)</b>	<b>Air Transport (IATA/ICAO)</b>
<b>14.1 UN number</b>	None Allocated	None Allocated	None Allocated
<b>14.2 UN proper shipping name</b>	None Allocated	None Allocated	None Allocated

**Product name**                    **LOCTITE LOW STRENGTH THREAD LOCKER 222**

**14.3 Transport hazard classes**

<b>DG Class</b>	None Allocated	None Allocated	None Allocated
<b>Subsidiary risk(s)</b>	None Allocated	None Allocated	None Allocated

**14.4 Packing group**

None Allocated	None Allocated	None Allocated
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**14.5 Environmental hazards**

None Allocated

**14.6 Special precautions for user**

<b>Hazchem Code</b>	None Allocated
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**15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Poison schedule**                    A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classifications**                    N - Dangerous for the environment  
 Xi - Irritant

**Risk phrases**

R36/37:	Irritating to eyes and respiratory system.
R52/53:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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.

**Inventory listing(s)**                **AUSTRALIA: AICS (Australian Inventory of Chemical Substances)**  
 All components are listed on AICS, or are exempt.

**15.2 Chemical safety assessment**

No information provided.

**16. OTHER INFORMATION**

**Additional information**            **WORKPLACE CONTROLS AND PRACTICES:** Unless a less toxic chemical can be substituted for a hazardous substance, **ENGINEERING CONTROLS** are the most effective way of reducing exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Isolating operations can also reduce exposure. Using respirators or protective equipment is less effective than the controls mentioned above, but is sometimes necessary.

**RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**HEALTH EFFECTS FROM EXPOSURE:**  
 It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**  
 The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**COLOUR RATING SYSTEM:** RMT has assigned all ChemAlert reports a colour rating of Green, Amber or

**Product name**                    **LOCTITE LOW STRENGTH THREAD LOCKER 222**

Red for the sole purpose of providing users with a quick and easy means of determining the hazardous nature of a product. Safe handling recommendations are provided in all ChemAlert reports so as to clearly identify how users can control the hazards and thereby reduce the risk (or likelihood) of adverse effects. As a general guideline, a Green colour rating indicates a low hazard, an Amber colour rating indicates a moderate hazard and a Red colour rating indicates a high hazard.

While all due care has been taken by RMT in the preparation of the Colour Rating System, it is intended as a guide only and RMT does not provide any warranty in relation to the accuracy of the Colour Rating System. As far as is lawfully possible, RMT accepts no liability or responsibility whatsoever for the actions or omissions of any person in reliance on the Colour Rating System.

<b>Abbreviations</b>	ACGIH	American Conference of Governmental Industrial Hygienists
	CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
	CNS	Central Nervous System
	EC No.	EC No - European Community Number
	EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
	GHS	Globally Harmonized System
	GTEPG	Group Text Emergency Procedure Guide
	IARC	International Agency for Research on Cancer
	LC50	Lethal Concentration, 50% / Median Lethal Concentration
	LD50	Lethal Dose, 50% / Median Lethal Dose
	mg/m <sup>3</sup>	Milligrams per Cubic Metre
	OEL	Occupational Exposure Limit
	PEL	Permissible Exposure Limit
	pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
	ppm	Parts Per Million
	REACH	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
	STEL	Short-Term Exposure Limit
	STOT-RE	Specific target organ toxicity (repeated exposure)
	STOT-SE	Specific target organ toxicity (single exposure)
	SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
	SWA	Safe Work Australia
	TLV	Threshold Limit Value
	TWA	Time Weighted Average

**Report Status**                    This ChemAlert report has been independently compiled by RMT's scientific department utilising the original Safety Data Sheet ('SDS') for the product provided to RMT by the manufacturer. The information is based on the latest chemical and toxicological research and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. It is an independent collation by RMT of information obtained from the original SDS for this product. Its content has not been authorised or verified by the manufacturer / distributor of the chemical to which it relates.

This ChemAlert report does not constitute the manufacturer's original SDS and is not intended to be a replacement for same. It is provided to subscribers of ChemAlert as a reference tool only, is not all-inclusive and does not represent any guarantee as to the properties of the product. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this ChemAlert report, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this ChemAlert report.

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**Product name**                    **LOCTITE LOW STRENGTH THREAD LOCKER 222**

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**End of Report**