



Safety Data Sheet

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272 Threadlocker High Strength

SDS No. : 153465

V001.1

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SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: 272 Threadlocker High Strength

Intended use: Anaerobic Adhesive

Supplier:

Henkel New Zealand Ltd.
2 Allens Road
Auckland, 2014
New Zealand

Phone: +64 (9) 272 6710

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Not Classified as Dangerous Goods according to NZS 5433: 2012 and the Land Transport Rule: Dangerous Goods 2005.

HSNO Classification:

6.1D Class 6 - Toxicity, Subclass 6.1 - Acutely toxic, Hazard Classification D

Class 6 - Toxicity, Subclass 6.3 - Skin irritant, Hazard Classification A

Class 6 - Toxicity, Subclass 6.5 - Sensitisation, Hazard Classification B

Class 6 - Toxicity, Subclass 6.6 - Mutagen, Hazard Classification B

Class 6 - Toxicity, Subclass 6.9 - Target organ, Hazard Classification B

Class 8 - Corrosiveness, Subclass 8.3 - Eye corrosive, Hazard Classification A

Hazard pictogram:



Signal word:

Danger

Hazard statement(s):	H318 Causes serious eye damage. H332 Harmful if inhaled. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H373 May cause damage to organs through prolonged or repeated exposure.
Precautionary Statement(s):	
Prevention:	P264 Wash 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 eye and face protection. P280 Wear protective gloves. P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust, fume, gas, mist, vapours and/or spray.
Response:	P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P331 Do NOT induce vomiting. P312 Call a poison control 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. P310 Immediately call a POISON CENTER/doctor. P333+P313 If skin irritation or rash occurs: Get medical attention. P337+P313 If eye irritation persists: Get medical attention. P362 Take off contaminated clothing. P308+P313 IF exposed or concerned: Get medical advice/attention. P314 Get medical advice/attention if you feel unwell. P363 Wash contaminated clothing before reuse.
Storage:	P405 Store locked up.
Disposal:	P501 Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

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
1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione	3006-93-7	10- 15 %
Cumene hydroperoxide	80-15-9	1- 2 %
Non hazardous remainder~		80- 90 %

SECTION 4 FIRST AID MEASURES

Ingestion:	Get medical attention. Keep individual calm. Do not induce vomiting.
Skin:	Wash with soap and water. If symptoms develop and persist, get medical attention. Wash clothing before reuse. Remove contaminated clothing and footwear.
Eyes:	Get medical attention. Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time.
Inhalation:	Move to fresh air. If symptoms develop and persist, get medical attention.
First Aid facilities:	Eye wash and safety shower Normal washroom facilities
Medical attention and special treatment:	Treat symptomatically and supportively.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	If product is involved in fire extinguish with dry powder, foam or carbon dioxide.
Decomposition products in case of fire:	Oxides of nitrogen. Oxides of carbon. Thermal decomposition can lead to release of irritating gases and vapors.
Special protective equipment for fire-fighters:	Wear self contained breathing apparatus. Wear full protective clothing.
Additional fire fighting advice:	In case of fire, keep containers cool with water spray.

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:	Use only in well-ventilated areas. Avoid skin and eye contact. Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.
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.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure standards:

None

Engineering controls: Ensure good ventilation/extraction.

Eye protection: Wear protective glasses.

Skin protection: Wear suitable protective clothing.
The use of chemical resistant gloves such as Nitrile is recommended.

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Respiratory protection: Use only in well-ventilated areas.
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:	Orange-red liquid
Odor:	characteristic
pH:	3 - 6
Melting point / freezing point:	Not available.
Specific gravity:	1.11
Boiling point:	> 149 °C (> 300.2 °F)
Flash point:	> 93.3 °C (> 199.94 °F)
(Tagliabue closed cup)	
Vapor pressure:	< 5 mm hg
(; 80 °F (26.7 °C))	
Solubility in water:	Slight
VOC content:	< 3 %
(2010/75/EC)	

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).
High temperatures.

Incompatible materials:	Reducing agents. Strong alkalis. Strong acids and oxidizing agents. Other polymerization initiators.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Irritating organic vapours.
Hazardous polymerization:	Hazardous polymerization may occur in the presence of excess peroxides and metals contamination.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:

Ingestion:	May be harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin:	Irritating to skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Eyes:	Causes serious eye damage. Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Inhalation:	May cause respiratory tract irritation.
Chronic effects:	Repeated excessive dermal exposure may cause marked skin irritation and may increase the possibility of allergic reactions.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7	LD50	2,025 mg/kg	oral	4 h	rat	Not specified
	LC50	0.055 mg/l	inhalation		rat	
Cumene hydroperoxide 80-15-9	LD50	550 mg/kg	oral		rat	

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Cumene hydroperoxide 80-15-9	corrosive		rabbit	Draize Test

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	

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	

SECTION 12. ECOLOGICAL INFORMATION

General ecological information: Do not empty into drains / surface water / ground water., Biodegradable product of low ecotoxicity., Cured Loctite products are typical polymers and do not pose any immediate environmental hazards., Biological and Chemical Oxygen Demands (BOD and COD) are insignificant.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7	EC50	31.6 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
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)
Cumene hydroperoxide 80-15-9	EC10	70 mg/l	Bacteria	30 min		

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7	Not readily biodegradable.	Not specified	0 - < 60 %	OECD Guideline 303 A (Simulation Test Aerobic Sewage Treatment. A: Activated Sludge Units)
Cumene hydroperoxide 80-15-9		no data	0 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution 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					

SECTION 13. DISPOSAL CONSIDERATIONS
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Waste disposal of product: Dispose of in accordance with local and national regulations. Contribution of this product to waste is very insignificant in comparison to article in which it is used

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

Dangerous Goods information:

Not Classified as Dangerous Goods according to NZS 5433: 2012 and the Land Transport Rule: Dangerous Goods 2005.

General information:

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

SECTION 15. REGULATORY INFORMATION

New Zealand regulatory information:

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

HSNO Approval Number: HSR002670

Site and Storage: Refer to the site and storage requirements for this Group Standard.

NZIoC: Compliant for NZIOC

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: STEL - Short term exposure limit
TWA - Time weighted average
HSNO - Hazardous Substances and New Organisms
GHS: Globally Harmonized System
CAS: Chemical Abstracts Service
LD 50: Lethal Dose 50%
LC 50: Lethal Concentration 50%
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

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Disclaimer:

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