

Safety Data Sheet

Loctite 272 Threadlocker

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SDS No.: 153465

V001.11

Revision: 04.01.2018 printing date: 05.07.2018

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

Loctite 272 Threadlocker **Product name:**

272 THREADLOCKER Other means of identification:

Product code: IDH231992

Recommended use of the chemical and restrictions on use

Intended use: Anaerobic Adhesive

Identification of manufacturer, importer or distributor

Importer: Henkel Malaysia Sdn Bhd 46th Floor, Menara TM, Jalan Pantai Baharu, 59200 Kuala Lumpur, Malaysia. Phone

:+ 603 22461000 Fax : + 60322461188

E-mail address of person

responsible for Safety Data

Emergency information:

Sheet:

ap-ua-psra.sea@henkel.com

FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call

CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

Hazard Class	Hazard Category	Route of Exposure	Target organ
Acute toxicity	Category 2	Inhalation	
Skin corrosion/irritation	Category 2		
Serious eye damage/eye irritation	Category 1		
Skin sensitizer	Category 1		
Specific target organ toxicity -	Category 3		respiratory tract irritation
single exposure			
Chronic hazards to the aquatic	Category 3		
environment			

GHS label elements:

Hazard pictogram:



Signal word: Danger SDS No.: 153465 V001.11

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Hazard statement: H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Precaution:

Prevention: P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 [In case of inadequate ventilation] wear respiratory protection.

Response: P302+P352 IF ON SKIN: Wash with plenty of water.

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.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

Storage: P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

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Section 3. Composition / information on ingredients

Substance or Mixture:

Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione	10- 30 %	Acute toxicity 2; Inhalation
3006-93-7		H330
		Skin corrosion/irritation 2 H315
		Serious eye damage/eye irritation 1 H318
		Skin sensitizer 1 H317
		Chronic hazards to the aquatic environment 3 H412
Methacrylic acid, monoester with propane-1,2-diol	1- 10 %	Serious eye damage/eye irritation 2
27813-02-1		H319 Skin sensitizer 1 H317
Cumene hydroperoxide	1- 10 %	Organic peroxides E
80-15-9		H242
		Acute toxicity 4; Oral H302
		Acute toxicity 3; Inhalation H331
		Acute toxicity 4; Dermal H312
		Skin corrosion/irritation 1B H314
		Specific target organ toxicity - repeated exposure 2 H373
		Chronic hazards to the aquatic environment 2 H411
Maleic acid 110-16-7	0.1- 1 %	Acute toxicity 4; Oral H302
110-10-7		Acute toxicity 4; Dermal H312
		Skin corrosion/irritation 2
		H315 Serious eye damage/eye irritation 2
		H319 Skin sensitizer 1
		H317 Specific target organ toxicity - single exposure 3
		H335
Acetic acid, 2-phenylhydrazide 114-83-0	0.1- 1 %	Acute toxicity 3; Oral H301
114 03 0		Skin corrosion/irritation 2
		H315 Serious eye damage/eye irritation 2
		H319
		Skin sensitizer 1 H317
		Carcinogenicity 2
		H351
		Specific target organ toxicity - single exposure 3; Inhalation
1,4-Naphthalenedione	< 0.1 %	H335 Acute toxicity 3; Oral
130-15-4	\ J.1 /0	H301
		Acute toxicity 1; Inhalation H330
		Skin corrosion/irritation 2; Dermal H315
		Serious eye damage/eye irritation 2 H319
		Skin sensitizer 1; Dermal H317
		Specific target organ toxicity - single exposure 3; Inhalation
		H335
		Acute hazards to the aquatic environment 1

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H400
Chronic hazards to the aquatic environment 1
H410

Section 4. First aid measures

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes), seek medical attention

from a specialist.

Ingestion: Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

Indication of immediate medical attention and special treatment

needed:

See section: Description of first aid measures

Section 5. Fire fighting measures

Suitable extinguishing media: Carbon dioxide, foam, powder

Improper extinguishing media: High pressure waterjet

Special protection equipment and

precautions for firefighters:

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Hazardous combustion products: Trace amounts of toxic and/or irritating fumes may be released and the use of breathing

apparatus is recommended.

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

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.

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.

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Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

Respiratory protection: Use only in well-ventilated areas.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if

the product is used in a poorly ventilated area

Filter type: A (EN 14387)

Chemical-resistant protective gloves (EN 374). Hand protection:

Suitable materials for short-term contact or splashes (recommended: at least protection

index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6,

corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the

gloves should be replaced.

Eye protection: Wear protective glasses.

Protective eye equipment should conform to EN166.

Wear suitable protective clothing. **Body protection:**

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for

dusts.

Engineering controls: Ensure good ventilation/extraction.

Good industrial hygiene practices should be observed. Wash hands before work breaks **Hygienic measures:**

and after finishing work. Do not eat, drink or smoke while working.

Section 9. Physical and chemical properties

Appearance: Orange-red lianid

Odor: characteristic Odor threshold (CA): No data available.

3 - 6

Melting point / freezing point: No data available.

Specific gravity:

Boiling point: No data available. Flash point: > 93.3 °C (> 199.94 °F)

(Tagliabue closed cup)

Evaporation rate: No data available. Flammability (solid, gas): No data available. No data available. Lower explosive limit: Upper explosive limit: No data available. Vapor pressure: < 0.13 mbar (; 25 °C (77 °F)no method; 50 °C < 300 mbar

(122 °F))

No data available. Vapor density: **Density:** No data available. Solubility: No data available.

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Partition coefficient: n-

No data available.

octanol/water:

Auto ignition: No data available. **Decomposition temperature:** No data available. No data available. Viscosity:

VOC content: (2010/75/EC) < 3 %

Section 10. Stability and reactivity

Reactivity/Incompatible Reducing agents. materials: Strong oxidizing agents.

Stable under recommended storage conditions. Chemical stability: Conditions to avoid: No decomposition if stored and applied as directed.

Section 11. Toxicological information

Oral toxicity: Acute toxicity estimate (ATE) : > 2,000 mg/kg

Method: Calculation method

Inhalative toxicity: Acute toxicity estimate (ATE): 0.39 mg/l

Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method

Dermal toxicity: Acute toxicity estimate (ATE): > 2,000 mg/kg

Method: Calculation method

Symptoms of Overexposure: EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation. SKIN: Rash, Urticaria.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

Acute oral toxicity:

1,1'-(1,3-phenylene)bis-1H-pyrrole-	Value type	LD50
2,5-dione	Value	2,025 mg/kg
3006-93-7	Species	rat
	Method	not specified
Methacrylic acid, monoester with	Value type	LD50
propane-1,2-diol	Value	> 2,000 mg/kg
27813-02-1	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Cumene hydroperoxide	Value type	LD50
80-15-9	Value	550 mg/kg
	Species	rat
	Method	not specified
Maleic acid	Value type	LD50
110-16-7	Value	708 mg/kg
	Species	rat
	Method	not specified
Acetic acid, 2-phenylhydrazide	Value type	LD50
114-83-0	Value	270 mg/kg
	Species	rat
	Method	not specified
1,4-Naphthalenedione	Value type	LD50
130-15-4	Value	190 mg/kg
	Species	rat
	Method	not specified

Acute inhalative toxicity:

1,1'-(1,3-phenylene)bis-1H-pyrrole-	Value type	LC50
2,5-dione	Value	0.055 mg/l
3006-93-7	Exposure time	4 h
	Species	rat
	Method	not specified

Acute dermal toxicity:

Methacrylic acid, monoester with	Value type	LD50
propane-1,2-diol	Value	> 5,000 mg/kg
27813-02-1	Species	rabbit
	Method	not specified
Cumene hydroperoxide	Value type	LD50
80-15-9	Value	1,200 - 1,520 mg/kg
	Species	
	Method	not specified
Maleic acid	Value type	LD50
110-16-7	Value	1,560 mg/kg
	Species	rabbit
	Method	not specified

Skin corrosion/irritation:

Methacrylic acid, monoester with	Result	not irritating
propane-1,2-diol	Exposure time	24 h
27813-02-1	Species	rabbit
	Method	Draize Test
Cumene hydroperoxide	Result	corrosive
80-15-9	Exposure time	
	Species	rabbit
	Method	Draize Test
Maleic acid	Result	irritating
110-16-7	Exposure time	24 h
	Species	human
	Method	Patch Test

Serious eye damage/irritation:

Maleic acid	Result	highly irritating
110-16-7	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Maleic acid	Result	sensitising
110-16-7	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Maleic acid	Result	sensitising
110-16-7	Test type	Mouse local lymphnode assay (LLNA)
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)

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Germ cell mutagenicity:

Methacrylic acid, monoester	Result	negative
with propane-1,2-diol	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
27813-02-1	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Methacrylic acid, monoester	Result	negative
with propane-1,2-diol	Type of study / Route of administration	mammalian cell gene mutation assay
27813-02-1	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene
		Mutation Test)
Methacrylic acid, monoester	Result	negative
with propane-1,2-diol	Type of study / Route of administration	oral: gavage
27813-02-1	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 474 (Mammalian Erythrocyte
		Micronucleus Test)
Cumene hydroperoxide	Result	positive
80-15-9	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Cumene hydroperoxide	Result	negative
80-15-9	Type of study / Route of administration	dermal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	not specified
Maleic acid	Result	negative
110-16-7	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	no data
	Method	Ames Test
Maleic acid	Result	negative
110-16-7	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene
		Mutation Test)

Repeated dose toxicity:

Methacrylic acid, monoester	Result	NOAEL=300 mg/kg
with propane-1,2-diol	Route of application	oral: gavage
27813-02-1	Exposure time / Frequency of treatment	
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Cumene hydroperoxide	Result	
80-15-9	Route of application	inhalation: aerosol
	Exposure time / Frequency of treatment	6 h/d5 d/w
	Species	rat
	Method	not specified
Maleic acid	Result	NOAEL=>= 40 mg/kg
110-16-7	Route of application	oral: feed
	Exposure time / Frequency of treatment	90 ddaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral
		Toxicity in Rodents)

Section 12. Ecological information

General ecological information:

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.

Do not empty into drains / surface water / ground water. **Ecotoxicity:**

Toxicity:

1,1'-(1,3-phenylene)bis-1H-pyrrole-	Value type	EC50
2,5-dione	Value	31.6 mg/l

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3006-93-7	Acute Toxicity Study	Daphnia
3000 73 7	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Methacrylic acid, monoester with	Value type	LC50
propane-1,2-diol 27813-02-1	Value	493 mg/l
	Acute Toxicity Study	Fish
	Exposure time	48 h
	Species	Leuciscus idus melanotus
	Method	DIN 38412-15
Methacrylic acid, monoester with	Value type	EC50
propane-1,2-diol	Value	> 143 mg/l
27813-02-1	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Methacrylic acid, monoester with	Value type	EC50
propane-1,2-diol	Value	> 97.2 mg/l
27813-02-1	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	> 97.2 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methacrylic acid, monoester with	Value type	EC10
propane-1,2-diol	Value	1,140 mg/l
27813-02-1	Acute Toxicity Study	Bacteria
	Exposure time	16 h
	Species	
	Method	not specified
Cumene hydroperoxide	Value type	LC50
80-15-9	Value	3.9 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cumene hydroperoxide	Value type	EC 50
80-15-9	Value	7 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	24 h
	Species	Water flea (Daphnia magna)
	Method	
	Value type	EC50
	Value	18 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cumene hydroperoxide	Value type	ErC50
80-15-9	Value	3.1 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Cumene hydroperoxide	Value type	EC10
80-15-9	Value	70 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	
	Method	not specified
Maleic acid	Value type	LC50
110-16-7	Value	> 245 mg/l
	Acute Toxicity Study	Fish
	Exposure time	48 h
	Species	Leuciscus idus
	Method	DIN 38412-15
Maleic acid	Value type	EC50
110-16-7	Value	42.81 mg/l
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	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Maleic acid	Value type	EC50
110-16-7	Value	74.35 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,4-Naphthalenedione	Value type	EC50
130-15-4	Value	0.011 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Dunaliella bioculata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

1,1'-(1,3-phenylene)bis-1H- pyrrole-2,5-dione 3006-93-7	Result	not readily biodegradable.
	Route of application	not specified
	Degradability	0 - < 60 %
	Method	OECD Guideline 303 A (Simulation TestAerobic Sewage Treatment. A: Activated Sludge Units)
Methacrylic acid, monoester	Result	readily biodegradable
with propane-1,2-diol	Route of application	aerobic
27813-02-1	Degradability	94.2 %
	Method	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
Cumene hydroperoxide 80-15-9	Result	
	Route of application	no data
	Degradability	0 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Maleic acid	Result	readily biodegradable
110-16-7	Route of application	aerobic
	Degradability	97.08 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
1,4-Naphthalenedione	Result	
130-15-4	Route of application	no data
	Degradability	0 - 60 %
	Method	OECD 301 A - F

Bioaccumulative potential / Mobility in soil:

Methacrylic acid, monoester	LogPow	0.97
with propane-1,2-diol	Temperature	20 °C
27813-02-1	Method	not specified
Cumene hydroperoxide	Bioconcentration factor (BCF)	9.1
80-15-9	Exposure time	
	Species	calculation
	Temperature	
	Method	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Cumene hydroperoxide	LogPow	2.16
80-15-9	Temperature	
	Method	not specified
Maleic acid	LogPow	-1.3
110-16-7	Temperature	20 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Acetic acid, 2-phenylhydrazide	LogPow	0.74
114-83-0	Temperature	
	Method	not specified
1,4-Naphthalenedione	LogPow	1.71
130-15-4	Temperature	
	Method	not specified

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Section 13. Disposal considerations

Product

Method of disposal: 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

Packaging

Disposal of uncleaned packages: 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

General information:

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

Section 15. Regulatory information

Regulatory Information: Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous

Chemicals) Regulations 2013 [P.U.(A) 310/213]

Industry Code of Practice on Chemicals Classification and Hazard Communication

Global inventory status:

Notification Regulatory list **TSCA** yes **NDSL** yes ENCS (JP) yes KECI (KR) yes PICCS (PH) yes **IECSC** yes ISHL (JP) yes

Section 16. Other information

Disclaimer: This information is based on our current level of knowledge and relates to the product in

the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.