



## Safety Data Sheet

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LOCTITE 271 HIGH STRENGTH THREADLOCKER known as  
271 Threadlocker 50ML EN/CH/JP

SDS No. : 153461

V002.5

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

**Product name:**

LOCTITE 271 HIGH STRENGTH THREADLOCKER known as 271 Threadlocker 50ML EN/CH/JP

**Other means of identification:**

LOCTITE 271 BO50ML EN/CH/JP

**Product code:**

IDH232077

**Recommended use of the chemical and restrictions on use**

**Intended use:**

Adhesive

**Identification of manufacturer, importer or distributor**

**Manufacturer:** Henkel Puerto Rico, Inc., 9 V. Quilinchini Avenue, 00637 Sabana Grande, Puerto Rico. Phone: 001 787 873 6500 Fax: 001 787 873 2619

**Importer:** Henkel Thailand Ltd The Offices at Centralworld, 35th Floor, 999/9 Rama 1 Rd, Kwang Patumwan, Khet Patumwan, Bangkok 10330, Thailand. Phone : +6622098000 Fax : +6622098008

**E-mail address of person responsible for Safety Data Sheet:**

ap-ua-psra.sea@henkel.com

**Emergency information:**

FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

### Section 2. Hazards identification

**GHS Classification:**

**Hazard Class**

Serious eye damage/eye irritation  
Specific target organ toxicity -  
single exposure

**Hazard Category**

Category 2  
Category 3

**Target organ**

respiratory tract irritation

**GHS label elements:**

**Hazard pictogram:**



**Signal word:**

Warning

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**Hazard statement:**

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**Precaution:**

**Prevention:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

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 do. 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.

**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.

**Section 3. Composition / information on ingredients**

**Substance or Mixture:**  
Mixture

**Declaration of hazardous chemical:**

Hazard component CAS-No.	Content	GHS Classification
$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	1- 10 %	Flammable liquids 4 H227 Organic peroxides E H242 Acute toxicity 4; Oral H302 Acute toxicity 3; Inhalation H331 Acute toxicity 4; Dermal H312 Skin corrosion/irritation 1 H314 Specific target organ toxicity - repeated exposure 2 H373 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 2 H411
N,N-Diethyl-p-toluidine 613-48-9	0.1- 1 %	Acute toxicity 3; Oral H301 Acute toxicity 3; Inhalation H331 Acute toxicity 3; Dermal H311 Specific target organ toxicity - repeated exposure 2 H373 Acute hazards to the aquatic environment 3 H402 Chronic hazards to the aquatic environment 3 H412
N,N-dimethyl-o-toluidine 609-72-3	0.1- 1 %	Flammable liquids 4 H227 Acute toxicity 3; Oral H301 Acute toxicity 3; Inhalation H331 Acute toxicity 3; Dermal H311 Specific target organ toxicity - repeated exposure 2 H373 Acute hazards to the aquatic environment 3 H402 Chronic hazards to the aquatic environment 3 H412
methyl methacrylate 80-62-6	0.1- 1 %	Flammable liquids 2 H225 Acute toxicity 5; Inhalation H333 Skin corrosion/irritation 2 H315 Skin sensitizer 1 H317 Specific target organ toxicity - single exposure 3 H335 Acute hazards to the aquatic environment 3 H402

#### 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:**

Foam, extinguishing powder, carbon dioxide.

**Specific hazards arising from the chemical:**

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) can be released.

**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.  
Wear protective equipment.  
Ensure adequate ventilation.  
See advice in section 8

**Environmental precautions:**

Do not empty into drains / surface water / ground water.

**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.  
Dispose of contaminated material as waste according to Section 13.

#### Section 7. Handling and storage

**Handling:**

Use only in well-ventilated areas.  
Gloves and safety glasses should be worn  
Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.  
Avoid skin and eye contact.  
See advice in section 8

**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.  
Refer to Technical Data Sheet

**Section 8. Exposure controls / personal protection**

Components with specific control parameters for workplace:

METHYL METHACRYLATE 80-62-6	<b>Value type</b>	Time Weighted Average (TWA):
	<b>ppm</b>	50
	<b>Remarks</b>	ACGIH
METHYL METHACRYLATE 80-62-6	<b>Value type</b>	Time Weighted Average (TWA):
	<b>ppm</b>	100
	<b>Remarks</b>	TH OEL
METHYL METHACRYLATE 80-62-6	<b>Value type</b>	Short Term Exposure Limit (STEL):
	<b>ppm</b>	100
	<b>Remarks</b>	ACGIH

**Respiratory protection:**

Ensure adequate ventilation.

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)

**Hand protection:**

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 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:**

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Protective eye equipment should conform to EN166.

**Body protection:**

Wear suitable protective clothing.

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

**Engineering controls:**

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

**Hygienic measures:**

Take off contaminated clothing and wash before reuse.

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

**Section 9. Physical and chemical properties**

<b>Appearance:</b>	red liquid
<b>Odor:</b>	mild
<b>Odor threshold (CA):</b>	No data available.
<b>pH:</b>	Not available.
<b>Melting point / freezing point:</b>	No data available.
<b>Specific gravity:</b>	1.1
<b>Boiling point:</b>	> 149 °C (> 300.2 °F)
<b>Flash point:</b>	> 93.3 °C (> 199.94 °F)
(Tagliabue closed cup)	
<b>Evaporation rate:</b>	No data available.

<b>Flammability (solid, gas):</b>	No data available.
<b>Lower explosive limit:</b>	No data available.
<b>Upper explosive limit:</b>	No data available.
<b>Vapor pressure:</b> (; 27 °C (80.6 °F))	< 6.5 mbar
<b>Vapor density:</b>	No data available.
<b>Density:</b>	1.1 g/cm <sup>3</sup>
<b>Solubility:</b>	Slightly soluble
<b>Partition coefficient: n-octanol/water:</b>	No data available.
<b>Auto ignition:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>VOC content:</b> (2010/75/EC)	< 3 %

### Section 10. Stability and reactivity

**Reactivity/Incompatible materials:**

Acids.  
Strong oxidizing agents.  
Reducing agents.

**Chemical stability:**

Stable under recommended storage conditions.

**Conditions to avoid:**

No decomposition if used according to specifications.

**Hazardous decomposition products:**

Oxides of carbon.  
Oxides of nitrogen.

### Section 11. Toxicological information

**Oral toxicity:** Acute toxicity estimate (ATE) : > 2,000 mg/kg  
Method: Calculation method

**Inhalative toxicity:** Acute toxicity estimate (ATE) : > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: Vapor.  
Method: Calculation method

**Dermal toxicity:** Acute toxicity estimate (ATE) : > 2,000 mg/kg  
Method: Calculation method

Symptoms of Overexposure: EYE: Irritation, conjunctivitis.  
RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.  
Prolonged or repeated contact may cause skin irritation.

**Acute oral toxicity:**

α, α-dimethylbenzyl hydroperoxide 80-15-9	Value type	LD50
	Value	382 mg/kg
	Species	rat
	Method	other guideline:
methyl methacrylate 80-62-6	Value type	LD50
	Value	9,400 mg/kg
	Species	rat
	Method	not specified

**Acute inhalative toxicity:**

methyl methacrylate 80-62-6	Value type	LC50
	Value	29.8 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified

**Acute dermal toxicity:**

$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	Value type	LD50
	Value	530 - 1,060 mg/kg
	Species	rat
	Method	other guideline:
$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	Value type	Acute toxicity estimate (ATE)
	Value	1,100 mg/kg
	Species	
	Method	Expert judgement
methyl methacrylate 80-62-6	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rabbit
	Method	not specified

**Skin corrosion/irritation:**

$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	Result	corrosive
	Exposure time	
	Species	rabbit
	Method	Draize Test

**Respiratory or skin sensitization:**

methyl methacrylate 80-62-6	Result	sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

**Germ cell mutagenicity:**

$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	Result	positive
	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)
$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	Result	negative
	Type of study / Route of administration	dermal
	Metabolic activation / Exposure time	
	Species	mouse
methyl methacrylate 80-62-6	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	not specified

**Repeated dose toxicity:**

α, α-dimethylbenzyl hydroperoxide 80-15-9	Result	
	Route of application	inhalation: aerosol
	Exposure time / Frequency of treatment	6 h/d5 d/w
	Species	rat
	Method	not specified
methyl methacrylate 80-62-6	Result	LOAEL=2000 ppm
	Route of application	inhalation
	Exposure time / Frequency of treatment	14 weeks6 hrs/day, 5 days/wk
	Species	mouse
	Method	Dose Range Finding Study
methyl methacrylate 80-62-6	Result	NOAEL=1000 ppm
	Route of application	inhalation
	Exposure time / Frequency of treatment	14 weeks6 hrs/day, 5 days/wk
	Species	mouse
	Method	Dose Range Finding Study

**Section 12. Ecological information**

**General ecological information:**

Do not empty into drains / surface water / ground water.

**Toxicity:**

α, α-dimethylbenzyl hydroperoxide 80-15-9	Value type	LC50
	Value	3.9 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	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)
α, α-dimethylbenzyl hydroperoxide 80-15-9	Value type	ErC50
	Value	3.1 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
α, α-dimethylbenzyl hydroperoxide 80-15-9	Value type	EC10
	Value	70 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	
	Method	not specified
N,N-dimethyl-o-toluidine 609-72-3	Value type	LC 50
	Value	46 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Fathead minnow (Pimephales promelas)
	Method	
methyl methacrylate 80-62-6	Value type	LC50
	Value	350 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Leuciscus idus
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
methyl methacrylate 80-62-6	Value type	EC50
	Value	69 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)



methyl methacrylate 80-62-6	Value type	EC50
	Value	170 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
methyl methacrylate 80-62-6	Value type	EC20
	Value	> 150 - 200 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	activated sludge, domestic
	Method	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)

**Persistence and degradability:**

$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	Result	
	Route of application	no data
	Degradability	0 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
methyl methacrylate 80-62-6	Result	readily biodegradable
	Route of application	aerobic
	Degradability	94 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

**Bioaccumulative potential / Mobility in soil:**

$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	Bioconcentration factor (BCF)	9.1
	Exposure time	
	Species	calculation
	Temperature	
	Method	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	LogPow	2.16
	Temperature	
	Method	not specified
methyl methacrylate 80-62-6	LogPow	1.38
	Temperature	20 °C
	Method	other guideline:

**Section 13. Disposal considerations****Product****Method of disposal:**

Dispose of in accordance with local and national regulations.

**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.

Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

**Section 14. Transport information****Road transport ADR:**

Not dangerous goods

**Railroad transport RID:**

Not dangerous goods

**Inland water transport ADN:**

Not dangerous goods

**Marine transport IMDG:**

Not dangerous goods

**Air transport IATA:**

Not dangerous goods

### Section 15. Regulatory information

**Regulatory Information:**

Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555

**Global inventory status:**

Regulatory list	Notification
TSCA	yes
DSL	yes
KECI (KR)	yes
ENCS (JP)	yes
ISHL (JP)	yes
IECSC	yes
TCSI	yes
PICCS (PH)	yes
CH INV	yes
EINECS	yes

### Section 16. Other information

**Disclaimer:**

This Safety Data Sheet has been generated based on Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555 only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance. 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.

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