



Safety Data Sheet

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LOCTITE 577 MEDIUM STRENGTH THREAD SEALANT
known as Loctite 577 PIPE SEALANT 250ML

SDS No. : 168431

V001.2

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SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: LOCTITE 577 MEDIUM STRENGTH THREAD SEALANT known as Loctite 577 PIPE SEALANT 250ML

Intended use: Anaerobic Sealant

Supplier:

Henkel New Zealand Ltd
2 Allens Rd
Auckland, 2013
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

HSNO Classification:

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

Class 6 - Toxicity, Subclass 6.4 - Eye irritant, Hazard Classification A

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

GHS Classification:

Hazard Class

Skin irritation

Serious eye irritation

Skin sensitizer

Target Organ Systemic Toxicant -

Single exposure

Hazard Category

Category 2

Category 2A

Category 1

Category 3

Target organ

respiratory tract irritation

Hazard pictogram:



Signal word:

Warning

LOCTITE 577 MEDIUM STRENGTH THREAD
SEALANT known as Loctite 577 PIPE SEALANT
250ML

Hazard statement(s):	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Precautionary Statement(s):	
Prevention:	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands 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 face protection and protective gloves/protective clothing.
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. P337+P313 If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing.
Storage:	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description: Mixture
Type of preparation: Anaerobic Sealant

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Lauryl methacrylate	142-90-5	< 10 %
Hexadecyl methacrylate	2495-27-4	< 5 %
Tetradecyl methacrylate	2549-53-3	< 5 %
Acetic acid, 2-phenylhydrazide	114-83-0	< 1 %
Maleic acid	110-16-7	< 1 %
Cumene hydroperoxide	80-15-9	< 0.5 %
non hazardous ingredients~		60- <= 100 %

SECTION 4 FIRST AID MEASURES

Ingestion:	Do not induce vomiting. Have victim rinse mouth thoroughly with water. Seek medical advice, symptomatic treatment.
Skin:	Rinse with running water and soap. Remove contaminated clothing and footwear. If skin irritation persists, call a physician.
Eyes:	Wash with plenty of water immediately and continue for several minutes, holding eyelid open. Consult a doctor.
Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
First Aid facilities:	Eye wash Normal washroom facilities
Medical attention and special treatment:	Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Carbon dioxide, foam, powder
Improper extinguishing media:	Water spray jet
Decomposition products in case of fire::	Thermal decomposition may release toxic and/or hazardous gases. Carbon dioxide. carbon monoxide Irritating fumes.
Particular danger in case of fire::	In case of fire, keep containers cool with water spray.
Special protective equipment for fire-fighters:	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA). Wear full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid skin and eye contact. Ensure adequate ventilation. Wear adequate personal protective clothing and equipment. Keep unnecessary personnel away.
Environmental precautions:	Do not allow spill to enter sewage systems or open bodies of 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.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:	Use only in well-ventilated areas. Avoid breathing vapors or mists of this product. Avoid skin and eye contact. Wear suitable protective clothing, safety glasses and gloves.
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.
Unsuitable materials with product:	plastic

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Ceiling	STEL (ppm)	STEL (mg/m3)
PARTICULATES NOT OTHERWISE CLASSIFIED, RESPIRABLE DUST 9002-88-4	Respirable dust.		3	-	-	-
PARTICULATES NOT OTHERWISE CLASSIFIED, INHALABLE DUST	Inhalable dust.		10	-	-	-
PROPANE-1,2-DIOL, PARTICULATES ONLY 57-55-6	Particulate.		10	-	-	-
PROPANE-1,2-DIOL, VAPOUR & PARTICULATES	Vapor and particulates.	150	474	-	-	-

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Eye protection: Safety goggles or safety glasses with side shields.

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact.
Neoprene gloves.
Butyl rubber gloves.
Natural rubber gloves.

Respiratory protection: 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: dark yellow
paste

Odor: mild

pH: 3 - 6

Specific gravity: 1.15 - 1.2

Boiling point: > 149 °C (> 300.2 °F)

Flash point: > 100 °C (> 212 °F)
(Pensky Martens closed cup)

Vapor pressure: < 5 mm hg
(; 27 °C (80.6 °F); 27 °C (80.6 °F))

Density: 1.15 - 1.20 g/cm3

Solubility in water: Slightly soluble

Viscosity (dynamic): 16,000 - 33,000 mPa.s
(Brookfield; Instrument: RVT;
speed of rotation: 20 min-1;
Spindle No: 6; Method:;; LCT

STM 10; Viscosity Brookfield)
VOC content: < 3 %
(2010/75/EC)

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid: Extremes of temperature.

Incompatible materials: Reacts with strong oxidants.
Will attack some forms of plastic, rubber, and coatings.

Hazardous decomposition products: Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.
carbon monoxide
carbon dioxide

Hazardous polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:

Ingestion: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Not expected to be harmful by ingestion.

Skin: Causes skin irritation.
Contact with liquid may produce severe skin irritation including redness and inflammation.
May cause allergic skin reaction.
May cause skin irritation.

Eyes: Causes serious eye irritation.
Symptoms may include severe irritation, pain, tearing, blurred vision.
Contact with eyes will cause irritation.

Inhalation: This product is irritating to the respiratory system.
Inhalation of product mist may cause irritation of the nose, throat, and respiratory tract.
May cause respiratory tract irritation.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Maleic acid 110-16-7	LD50	708 mg/kg	oral		rat	not specified
	LD50	1,560 mg/kg			rabbit	not specified
Cumene hydroperoxide 80-15-9	LD50	550 mg/kg	dermal		rat	not specified
	LD50	1,200 - 1,520	oral			
	LD50	mg/kg	dermal			

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Maleic acid 110-16-7	irritating	24 h	human	Patch Test
Cumene hydroperoxide 80-15-9	corrosive		rabbit	Draize Test

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Maleic acid 110-16-7	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation/ Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Maleic acid 110-16-7	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Maleic acid 110-16-7	sensitising	Mouse local lymphnode assay (LLNA)	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study/ Route of administration	Metabolic activation/ Exposure time	Species	Method
Maleic acid 110-16-7	negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	no data with and without		Ames Test OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
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	not specified

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time/ Frequency of treatment	Species	Method
Maleic acid 110-16-7	NOAEL=>= 40 mg/kg	oral: feed	90 d/daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Cumene hydroperoxide 80-15-9		inhalation: aerosol	6 h/d5 d/w	rat	not specified

SECTION 12. ECOLOGICAL INFORMATION

General ecological information:

Do not empty into drains / surface water / ground water., Cured Loctite products are typical polymers and do not pose any immediate environmental hazards.
Cured Loctite products are typical polymers and do not pose any immediate environmental hazards., Do not empty into drains, soil or bodies of water.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Maleic acid 110-16-7	LC50	> 245 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
Maleic acid 110-16-7	EC50	42.81 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Maleic acid 110-16-7	EC50	74.35 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition 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		not specified

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Maleic acid 110-16-7	readily biodegradable	aerobic	97.08 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
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.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Acetic acid, 2- phenylhydrazide 114-83-0	0.74					not specified
Maleic acid 110-16-7	-1.3				20 °C	OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)
Cumene hydroperoxide 80-15-9		9.1		calculation		OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
Cumene hydroperoxide 80-15-9	2.16					not specified

SECTION 13. DISPOSAL CONSIDERATIONS

- Waste disposal of product:** Dispose of in accordance with local and national regulations.
- Recommended cleanser:** Solvent naphtha
- 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

General information:

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

SECTION 15. REGULATORY INFORMATION

- HSNO Approval Number:** HSR002670
- Site and Storage:** Refer to the site and storage requirements for this Group Standard.
Refer to the HSNO controls for approved hazardous substances.
- NZIoC:** The hazardous components of this product are listed on the New Zealand Inventory of chemicals (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
- Reason for issue:** Reviewed SDS. Reissued with new date. involved chapters: 1 - 16
- Date of previous issue:** 10.09.2013
- Disclaimer:**

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SEALANT known as Loctite 577 PIPE SEALANT
250ML

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