

# Safety Data Sheet

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LOCTITE 542

SDS No.: 168433 V002.4 Revision: 15.05.2018 printing date: 05.07.2018

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

LOCTITE 542 **Product name:** 

Other means of identification: LOCTITE 542 BO 10ML PL/RU/HU/CZ IDH246608 **Product code:** Recommended use of the chemical and restrictions on use

Intended use:

**Emergency information:** 

Anaerobic Sealant

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 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
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity -	Category 3
single exposure	
Chronic hazards to the aquatic	Category 3
environment	

Target organ

respiratory tract irritation

**GHS label elements:** 

Hazard pictogram:



Signal word:

Hazard statement:	H319 Causes serious eye irritation. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.	
Precaution:		
Prevention:	<ul><li>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.</li><li>P264 Wash hands thoroughly after handling.</li><li>P273 Avoid release to the environment.</li><li>P280 Wear eye protection/face protection.</li></ul>	
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:

Cumene hydroperoxide 80-15-9 80-15-1	Hazard component CAS-No.	Content	GHS Classification
Acute toxicity 4: Coal H302   Acute toxicity 3: Inhalation H331   Acute toxicity 4: Dermal H331   Acute toxicity 4: Dermal H314   Specific target organ toxicity - repeated exposure 2 H373   Chronic hazards to the aquatic environment 2 H314   NN-Diethyl-p-toluidine   0.1- 1 %   Acute toxicity 3: Chal H311   Specific target organ toxicity - repeated exposure 2 H373   Chronic hazards to the aquatic environment 2 H411   NN-Diethyl-p-toluidine   0.1- 1 %   Acute toxicity 3: Chal H311   Specific target organ toxicity - repeated exposure 2 H373   Chronic hazards to the aquatic environment 3 H412   NN-dimethyl-o-toluidine   0.1- 1 %   Acute toxicity 3: Chal H313   Acute toxicity 3: Chal H313   Acute toxicity 3: Chal H314   Specific target organ toxicity - repeated exposure 2 H373   Chronic hazards to the aquatic environment 3 H412   NN-dimethyl-o-toluidine   609-72-3   O.1- 1 %   H411   Specific target organ toxicity - repeated exposure 2 H373   Chronic hazards to the aquatic environment 3 H412   H411   Specific target organ toxicity - repeated exposure 2 H373   Chronic hazards to the aquatic environment 3 H412   H412   Methyl methacrylate	Cumene hydroperoxide		
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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 if necessary.	
Ingestion:	Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.	
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	
Specific hazards arising from the chemical:	In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.	
Special protection equipment and precautions for firefighters:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.	
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.
-	Ensure adequate ventilation.
	See advice in section 8
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.
	Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage		
Handling:	Use only in well-ventilated areas. 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.	

# Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

METHYL METHACRYLATE 80-62-6	Value type	Time Weighted Average (TWA):
	ppm	50
	Remarks	ACGIH
METHYL METHACRYLATE 80-62-6	Value type	Time Weighted Average (TWA):
	ppm	100
	mg/m <sup>3</sup>	410
	Remarks	MY OEL
METHYL METHACRYLATE 80-62-6	Value type	Short Term Exposure Limit (STEL):
	ppm	100
	Remarks	ACGIH

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)	
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): 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.	
Body protection:	Wear suitable protective clothing. Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.	
Engineering controls:	Ensure good ventilation/extraction.	
Hygienic measures:	Wash hands before work breaks and after finishing work. Do not eat, drink or smoke whil working. Good industrial hygiene practices should be observed.	

# Section 9. Physical and chemical properties

#### Appearance:

Odor: Odor threshold (CA): pH: Melting point / freezing point: brown liquid characteristic No data available. 3 - 6 No data available. 1.08

>149 °C (>300.2 °F)

>100 °C (>212 °F)

Not available.

Specific gravity: Boiling point: Flash point: Evaporation rate:

Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Vapor pressure: (no method; 50 °C (122 °F))

Vapor density: Density: Solubility: Partition coefficient: noctanol/water: Auto ignition: Decomposition temperature: Viscosity: No data available. No data available. No data available. < 300 mbar Not available. 1.08 g/cm3 No data available. No data available. No data available. No data available. No data available.

No data available.

< 5 %

**VOC content:** (2010/75/EC)

# Section 10. Stability and reactivity

Reactivity/Incompatible materials: Chemical stability: Conditions to avoid: Hazardous decomposition products: Reaction with strong acids. Reacts with strong oxidants. Stable under recommended storage conditions. Stable Irritating organic vapours. Oxides of carbon. Sulphur oxides nitrogen oxides

# 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

Health Effects:	
Ingestion:	May cause gastrointestinal tract irritation if swallowed.
Skin:	Prolonged contact with skin, particularly damaged skin, may cause sensitization or dermatitis in sensitive individuals.
Eyes:	Causes serious eye irritation.
Inhalation:	May cause respiratory irritation.
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:

Cumene hydroperoxide	Value type	LD50	
80-15-9	Value	550 mg/kg	
	Species	rat	
	Method	not specified	
1,4-Naphthalenedione	Value type	LD50	
1,4-Naphthalenedione 130-15-4	Value type Value	LD50 190 mg/kg	

# Acute dermal toxicity:

Cumene hydroperoxide	Value type	LD50
80-15-9	Value	1,200 - 1,520 mg/kg
	Species	
	Method	not specified

# Skin corrosion/irritation:

Cumene hydroperoxide	Result	corrosive
80-15-9	Exposure time	
	Species	rabbit
	Method	Draize Test

#### Respiratory or skin sensitization:

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

#### Germ cell mutagenicity:

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
Methyl methacrylate	Result	negative
80-62-6	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:

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
Methyl methacrylate	Result	LOAEL=2000 ppm
80-62-6	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	Result	NOAEL=1000 ppm
80-62-6	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:

Cured Loctite products are typical polymers and do not pose any immediate environmental hazards.

**Ecotoxicity:** 

Harmful to a quatic life with long lasting effects., Do not empty into drains / surface water / ground water.

Toxicity:

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
N,N-dimethyl-o-toluidine	Value type	LC 50
609-72-3	Value	46 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Fathead minnow (Pimephales promelas)
	Method	
Methyl methacrylate	Value type	LC50
80-62-6	Value	350 mg/l
	Acute Toxicity Study	Fish

	Exposure time	
	Species	Leuciscus idus
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Methyl methacrylate	Value type	EC50
80-62-6	Value	69 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Methyl methacrylate	Value type	EC50
80-62-6	Value	170 mg/l
	Acute Toxicity Study	Algae
	Exposure time	4 d
	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	4 d
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methyl methacrylate	Value type	EC0
80-62-6	Value	100 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	
	Method	not specified
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:

Cumene hydroperoxide	Result	
80-15-9	Route of application	no data
	Degradability	0 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Methyl methacrylate	Result	readily biodegradable
80-62-6	Route of application	aerobic
	Degradability	95 %
	Method	EU Method C.4-B (Determination of the "Ready" BiodegradabilityModified
		OECD Screening 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:

Cumene hydroperoxide	Bioconcentration factor (BCF)	9.1
80-15-9	Exposure time	
	Species	calculation
	Temperature	
1	Method	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Cumene hydroperoxide	LogPow	2.16
80-15-9	Temperature	
	Method	not specified
Methyl methacrylate	LogPow	1.38
80-62-6	Temperature	
	Method	not specified
1,4-Naphthalenedione	LogPow	1.71
130-15-4	Temperature	
	Method	not specified

# Section 13. Disposal considerations

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.

# Section 14. Transport information

**Road transport ADR:** Not dangerous goods

#### Railroad transport RID: Not dangerous goods

0 0

#### **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:Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous<br/>Chemicals) Regulations 2013 [P.U.(A) 310/213]<br/>Industry Code of Practice on Chemicals Classification and Hazard Communication

#### **Global inventory status:**

Regulatory list	Notification
TSCA	yes
NDSL	yes
ENCS (JP)	yes
KECI (KR)	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.