

**LOCTITE 290** 

# **Safety Data Sheet**

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SDS No.: 153486

V001.8

Revision: 16.10.2017 printing date: 12.10.2018

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

**Product name:** LOCTITE 290

Other means of identification: LOCTITE 290 BO 50ML EGFD

**Product code:** IDH142568

Recommended use of the chemical and restrictions on use

**Intended use:** Adhesive

Identification of manufacturer, importer or distributor

Importer: Henkel Philippines Inc. LSL Bldg. 2, Diode St., Light Industry and Science Park of the Philippines I, Brgy.

Diezmo, Cabuyao, Laguna, Philippines Phone: +63495431051 Fax: +6323240490)

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
 Hazard Category
 Target organ

 Serious eye damage/eye irritation
 Category 2

Serious eye damage/eye irritation Specific target organ toxicity -

single exposure

Chronic hazards to the aquatic

environment

Category 3 respiratory tract irritation

**GHS** label elements:

Hazard pictogram:

<u>(!)</u>

Category 3

Signal word:

Warning

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**Hazard statement:** H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

**Precaution:** 

**Prevention:** P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling. P273 Avoid release to the environment. 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.

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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
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
Mathyl mathagrapha	0.1- 1%	
Methyl methacrylate 80-62-6	0.1- 1 %	Flammable liquids 2 H225
80-02-0		Skin corrosion/irritation 2
		H315
		Skin sensitizer 1
		H317
		Specific target organ toxicity - single exposure 3
		H335
1,4-Naphthalenedione	< 0.1 %	Acute toxicity 3; Oral
130-15-4		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 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 if

necessary.

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**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

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.

**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.

Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

Storage: Ensure good ventilation/extraction. 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:

METHYL METHACRYLATE 80-62-6	Value type	Time Weighted Average (TWA):	
80-02-0	ppm	50	
	Remarks	ACGIH	
METHYL METHACRYLATE 80-62-6	Value type	Time Weighted Average (TWA):	
	ppm	100	
	mg/m <sup>3</sup>	410	
	Remarks	PH 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: Good industrial hygiene practices should be observed. Wash hands before work breaks

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

### Section 9. Physical and chemical properties

Appearance: green liquid

Odor: mild

Odor threshold (CA):
pH:
No data available.
Not applicable
Melting point / freezing point:
No data available.

Specific gravity: 1.07

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**Boiling point:** > 150 °C (> 302 °F) **Flash point:** > 93.3 °C (> 199.94 °F)

(Tagliabue closed cup)

**Evaporation rate:** Not available.

Flammability (solid, gas):

Lower explosive limit:

Upper explosive limit:

Vapor pressure:

(; 27 °C (80.6 °F)no method; 50

No data available.

No data available.

> 5 mm hg

< 300 mbar

°C (122 °F))

Vapor density:

Density:

Solubility:

Partition coefficient: n
Not available.

1.07 g/cm3

No data available.

No data available.

octanol/water:

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

**VOC content:** < 3 %

(2010/75/EC)

### Section 10. Stability and reactivity

Reactivity/Incompatible

materials:

Reaction with strong acids. Reacts with strong oxidants.

Chemical stability: Stab Conditions to avoid: No c

Hazardous decomposition

products:

Stable under recommended storage conditions. No decomposition if used according to specifications.

Irritating organic vapours.

## 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.

### Acute oral toxicity:

Cumene hydroperoxide	Value type	LD50	
80-15-9	Value	550 mg/kg	
	Species	rat	
	Method	not specified	
1.4 Nombthalamadiana	Volue trme	LD50	
1,4-Naphthalenedione	value type	LD30	
130-15-4	Value type Value	190 mg/kg	

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## 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

# ${\bf Respiratory\ or\ skin\ sensitization:}$

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:** Do not empty into drains / surface water / ground water., Harmful to aquatic life

with long lasting effects.

## **Toxicity:**

Cumene hydroperoxide	Value type	LC50
80-15-9	Value	3.9 mg/l
	Acute Toxicity Study	Fish

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	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
00 13 7	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
G 1 1 '1		
Cumene hydroperoxide	Value type	EC10
80-15-9	Value	70 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	
	Method	not specified
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)
	** 1	NOEC
	Value type Value	100 mg/l
	Acute Toxicity Study	Algae
	, ,	
	Exposure time	4 d
	Exposure time Species	4 d Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
Mathyl math - mile	Exposure time Species Method	4 d  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)
Methyl methacrylate	Exposure time Species Method Value type	4 d  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  EC0
Methyl methacrylate 80-62-6	Exposure time Species Method Value type Value	4 d Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) OECD Guideline 201 (Alga, Growth Inhibition Test) EC0 100 mg/l
	Exposure time Species Method Value type Value Acute Toxicity Study	4 d  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  EC0  100 mg/l  Bacteria
	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time	4 d Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) OECD Guideline 201 (Alga, Growth Inhibition Test) EC0 100 mg/l
	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	4 d  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  EC0  100 mg/l  Bacteria  30 min
80-62-6	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method	4 d  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  EC0  100 mg/l  Bacteria  30 min  not specified
80-62-6  1,4-Naphthalenedione	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type	4 d  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) OECD Guideline 201 (Alga, Growth Inhibition Test) EC0 100 mg/l Bacteria 30 min  not specified EC50
80-62-6	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value	4 d  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  EC0  100 mg/l  Bacteria  30 min  not specified  EC50  0.011 mg/l
80-62-6  1,4-Naphthalenedione	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	4 d  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  EC0  100 mg/l  Bacteria  30 min  not specified  EC50  0.011 mg/l  Algae
80-62-6  1,4-Naphthalenedione	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time	4 d  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  EC0  100 mg/l  Bacteria  30 min  not specified  EC50  0.011 mg/l
80-62-6  1,4-Naphthalenedione	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	4 d  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  EC0  100 mg/l  Bacteria  30 min  not specified  EC50  0.011 mg/l  Algae

# 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)

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

# 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.

# Section 14. Transport information

# General information:

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

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# Section 15. Regulatory information

Regulatory Information: Department Order No. 136-14 Guidelines for the Implementation of Global Harmonised System

(GHS) in Chemical Safety Program in the Workplace

### Global inventory status:

Regulatory list	Notification
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.