



## Safety Data Sheet

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LOCTITE 222 LOW STRENGTH THREADLOCKER known as  
222 Threadlocker 50ML EN/CH/JP

SDS No. : 153481  
V001.12

Revision: 15.10.2020  
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### Section 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** LOCTITE 222 LOW STRENGTH THREADLOCKER known as 222 Threadlocker 50ML EN/CH/JP

**Other means of identification:** LOCTITE 222 BO50M LEN/CH/JP  
**Product code:** IDH228581

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

**Intended use:** Anaerobic Sealant

**Identification of manufacturer, importer or distributor**

**Importer:** Henkel Singapore Pte Ltd 401 Commonwealth Drive, #03-01/02, Haw Par Technocentre, Singapore. 149598  
Phone : +65 62660100 Fax : +65 62661161

**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:**

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Target organ</u>
Serious eye damage/eye irritation	Category 2	
Specific target organ toxicity - single exposure	Category 3	respiratory tract irritation
Chronic hazards to the aquatic environment	Category 3	

**GHS label elements:**

**Hazard pictogram:**



**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.

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

**Substance or Mixture:**  
Mixture

**Declaration of hazardous chemical:**

Hazard component CAS-No.	Content	GHS Classification
Silica, amorphous, fumed, crystal-free 112945-52-5	1- 10 %	
$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	1- 10 %	Organic peroxides E H242 Acute toxicity 4; Oral H302 Acute toxicity 3; Inhalation H331 Acute toxicity 4; Dermal H312 Skin corrosion 1 H314 Target Organ Systemic Toxicant - Repeated exposure 2 H373 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 Target Organ Systemic Toxicant - Repeated exposure 2 H373
Titanium dioxide 13463-67-7	0.1- 1 %	
cumene 98-82-8	0.1- 1 %	Flammable liquids 3 H226 Target Organ Systemic Toxicant - Single exposure 3 H335 Aspiration hazard 1 H304 Chronic hazards to the aquatic environment 2 H411
1,4-Naphthalenedione 130-15-4	< 0.1 %	Acute toxicity 3; Oral H301 Acute toxicity 1; Inhalation H330 Skin irritation 2; Dermal H315 Serious eye damage/eye irritation 2 H319 Skin Sensitization 1 H317 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410

**Section 4. First aid measures**

**Inhalation:**

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

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<b>Skin contact:</b>	Wash skin with water In case of adverse health effects seek medical advice.
<b>Eye contact:</b>	Flush eyes with plenty of water for at least 5 minutes. If irritation persists seek medical attention.
<b>Ingestion:</b>	Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting. In case of adverse health effects seek medical advice.
<b>Indication of immediate medical attention and special treatment needed:</b>	See section: Description of first aid measures

### Section 5. Fire fighting measures

<b>Suitable extinguishing media:</b>	Foam, extinguishing powder, carbon dioxide.
<b>Combustion behaviour:</b>	Non flammable product (flash point is greater than 100°C (CC))
<b>Special protection equipment and precautions for firefighters:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

### Section 6. Accidental release measures

<b>Personal precautions:</b>	Avoid skin and eye contact. Wear protective equipment. Ensure adequate ventilation. See advice in section 8
<b>Environmental precautions:</b>	Do not empty into drains / surface water / ground water.
<b>Clean-up methods:</b>	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

<b>Handling:</b>	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.
<b>Storage:</b>	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:

Silica, amorphous, fumed, crystal-free 112945-52-5	<b>Value type</b>	Time Weighted Average (TWA):
	<b>mg/m<sup>3</sup></b>	10
	<b>Remarks</b>	ACGIH
Silica, amorphous, fumed, crystal-free 112945-52-5	<b>Value type</b>	Time Weighted Average (TWA):
	<b>mg/m<sup>3</sup></b>	3
	<b>Remarks</b>	ACGIH
TITANIUM DIOXIDE 13463-67-7	<b>Value type</b>	Time Weighted Average (TWA):
	<b>mg/m<sup>3</sup></b>	10
	<b>Remarks</b>	ACGIH
TITANIUM DIOXIDE 13463-67-7	<b>Value type</b>	Time Weighted Average (TWA):
	<b>mg/m<sup>3</sup></b>	10
	<b>Remarks</b>	SG PEL
CUMENE 98-82-8	<b>Value type</b>	Time Weighted Average (TWA):
	<b>ppm</b>	50
	<b>Remarks</b>	ACGIH
CUMENE 98-82-8	<b>Value type</b>	Time Weighted Average (TWA):
	<b>ppm</b>	50
	<b>mg/m<sup>3</sup></b>	246
	<b>Remarks</b>	SG PEL

- Respiratory protection:** Ensure adequate ventilation.
- Hand protection:** In circumstances where there is a potential for prolonged or repeated skin contact, the use of polyvinyl chloride or nitrile rubber gauntlets or equivalent solvent resistant gloves is recommended.
- 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:** 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:** Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Take off contaminated clothing and wash before reuse.

**Section 9. Physical and chemical properties**

- Appearance:** purple  
liquid
- Odor:** characteristic
- Odor threshold (CA):** No data available.
- pH:** 3.00 - 6.00
- Melting point / freezing point:** No data available.
- Specific gravity:** 1.05
- Boiling point:** No data available.
- Flash point:** > 93.3 °C (> 199.94 °F)  
(Tagliabue closed cup)
- Evaporation rate:** 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> (; 25.0 °C (77 °F))	< 0.1000000 mbar
<b>Vapor density:</b>	No data available.
<b>Density:</b>	1.0800 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

<b>Reactivity/Incompatible materials:</b>	None if used for intended purpose.
<b>Chemical stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	No decomposition if used according to specifications.

### Section 11. Toxicological information

<b>Oral toxicity:</b>	Acute toxicity estimate (ATE) : > 2,000 mg/kg Method: Calculation method
<b>Inhalative toxicity:</b>	Acute toxicity estimate (ATE) : > 20 mg/l Exposure time: 4 h Test atmosphere: Vapor. Method: Calculation method
<b>Dermal toxicity:</b>	Acute toxicity estimate (ATE) : > 2,000 mg/kg Method: Calculation method

**Health Effects:**

Eyes: Causes serious eye irritation.  
 Inhalation: May cause respiratory tract irritation.  
 Symptoms of Overexposure: EYE: Irritation, conjunctivitis.  
 RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

**Acute oral toxicity:**

Silica, amorphous, fumed, crystal-free 112945-52-5	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
α, α-dimethylbenzyl hydroperoxide 80-15-9	Value type	LD50
	Value	382 mg/kg
	Species	rat
	Method	other guideline:
Titanium dioxide 13463-67-7	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
cumene 98-82-8	Value type	LD50
	Value	2,700 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
1,4-Naphthalenedione 130-15-4	Value type	LD50
	Value	190 mg/kg
	Species	rat
	Method	not specified

**Acute inhalative toxicity:**

Silica, amorphous, fumed, crystal-free 112945-52-5	Value type	LC50
	Value	> 58.8 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
Titanium dioxide 13463-67-7	Value type	LC50
	Value	> 6.82 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified
cumene 98-82-8	Value type	LC50
	Value	39 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified

**Acute dermal toxicity:**

Silica, amorphous, fumed, crystal-free 112945-52-5	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (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
Titanium dioxide 13463-67-7	Value type	LD50
	Value	$\geq$ 10,000 mg/kg
	Species	hamster
	Method	not specified
cumene 98-82-8	Value type	LD50
	Value	> 10,000 mg/kg
	Species	rabbit
	Method	not specified

**Skin corrosion/irritation:**

Silica, amorphous, fumed, crystal-free 112945-52-5	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	Result	corrosive
	Exposure time	
	Species	rabbit
	Method	Draize Test
Titanium dioxide 13463-67-7	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
cumene 98-82-8	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)



**Serious eye damage/irritation:**

Silica, amorphous, fumed, crystal-free 112945-52-5	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Titanium dioxide 13463-67-7	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
cumene 98-82-8	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

Titanium dioxide 13463-67-7	Result	not sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
cumene 98-82-8	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)

**Germ cell mutagenicity:**

Silica, amorphous, fumed, crystal-free 112945-52-5	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Silica, amorphous, fumed, crystal-free 112945-52-5	Result	negative
	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)
Silica, amorphous, fumed, crystal-free 112945-52-5	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
$\alpha$ , $\alpha$ -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
Titanium dioxide 13463-67-7	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Titanium dioxide 13463-67-7	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Titanium dioxide 13463-67-7	Result	negative
	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)
Titanium dioxide 13463-67-7	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
cumene 98-82-8	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
cumene 98-82-8	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
cumene 98-82-8	Result	negative
	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)
cumene 98-82-8	Result	negative
	Type of study / Route of administration	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro
	Metabolic activation / Exposure time	without
	Method	OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
cumene 98-82-8	Result	negative
	Type of study / Route of administration	inhalation: gas
	Metabolic activation / Exposure time	
	Species	mouse

	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
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**Repeated dose toxicity:**

Silica, amorphous, fumed, crystal-free 112945-52-5	Result	NOAEL=< 0.046 mg/l
	Route of application	inhalation
	Exposure time / Frequency of treatment	14 days 6 hours/day, 5 days/week
	Species	rat
	Method	not specified
Silica, amorphous, fumed, crystal-free 112945-52-5	Result	NOAEL=> 4,500 mg/kg
	Route of application	oral: feed
	Exposure time / Frequency of treatment	13 weeks daily, continuous
	Species	rat
	Method	
$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	Result	
	Route of application	inhalation: aerosol
	Exposure time / Frequency of treatment	6 h/d 5 d/w
	Species	rat
	Method	not specified
Titanium dioxide 13463-67-7	Result	NOAEL=1,000 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	90 ddaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
cumene 98-82-8	Result	NOAEL=> 535.8 mg/kg
	Route of application	oral: feed
	Exposure time / Frequency of treatment	28 ddaily
	Species	rat
	Method	not specified
cumene 98-82-8	Result	NOAEL=125 ppm
	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	14 w 6 h/d, 5 d/w
	Species	rat
	Method	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

**Section 12. Ecological information**

**General ecological information:** Do not empty into drains / surface water / ground water.

**Ecotoxicity:** Harmful to aquatic life with long lasting effects.

**Toxicity:**

Silica, amorphous, fumed, crystal-free 112945-52-5	Value type	LC50
	Value	> 10,000 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Brachydanio rerio (new name: Danio rerio)
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Silica, amorphous, fumed, crystal-free 112945-52-5	Value type	EL50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	24 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Silica, amorphous, fumed, crystal-free 112945-52-5	Value type	NOELR
	Value	10,000 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EL50
	Value	> 10,000 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)

Silica, amorphous, fumed, crystal-free 112945-52-5	Value type	EC0
	Value	10,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	Pseudomonas putida
	Method	DIN 38412, part 27 (Bacterial oxygen consumption test)
$\alpha$ , $\alpha$ -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)
$\alpha$ , $\alpha$ -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)
$\alpha$ , $\alpha$ -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)
$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	Value type	EC10
	Value	70 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	
	Method	not specified
Titanium dioxide 13463-67-7	Value type	LC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Fish
	Exposure time	48 h
	Species	Leuciscus idus
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Titanium dioxide 13463-67-7	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Titanium dioxide 13463-67-7	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Titanium dioxide 13463-67-7	Value type	EC0
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Bacteria
	Exposure time	24 h
	Species	Pseudomonas fluorescens
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
cumene 98-82-8	Value type	LC50
	Value	4.8 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
cumene 98-82-8	Value type	EC50
	Value	4 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
cumene 98-82-8	Value type	EC50
	Value	2.01 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h

	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	1.35 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
cumene 98-82-8	Value type	EC10
	Value	211 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	24 h
	Species	
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
1,4-Naphthalenedione 130-15-4	Value type	EC50
	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:**

$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	Result	
	Route of application	no data
	Degradability	0 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
cumene 98-82-8	Result	
	Route of application	aerobic
	Degradability	86 %
	Method	ISO 10708 (BODIS-Test)
1,4-Naphthalenedione 130-15-4	Result	not readily biodegradable.
	Route of application	no data
	Degradability	0 - 60 %
	Method	OECD 301 A - F

**Bioaccumulative potential / Mobility in soil:**

Silica, amorphous, fumed, crystal-free 112945-52-5	LogPow	0.53
	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
$\alpha$ , $\alpha$ -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
cumene 98-82-8	Bioconcentration factor (BCF)	35.5
	Exposure time	
	Species	Carassius auratus
	Temperature	
	Method	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
cumene 98-82-8	LogPow	3.55
	Temperature	23 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
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.

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. 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:** Workplace Safety And Health Act (Chapter 354A) Workplace Safety And Health (Approved Codes of Practice) Notification 2013 SS586 Specification for Hazard Communication for hazardous chemicals and dangerous good Part 1,2,3

**Global inventory status:**

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

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**Section 16. Other information**

**Disclaimer:**

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Dear Customer,

Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your\_company.com).