



Safety Data Sheet

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LOCTITE 263 THREADLOCKER 250 mL

SDS No. : 347828

V001.4

Date of issue: 22.01.2020

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

Product name: LOCTITE 263 THREADLOCKER 250 mL

Intended use: Adhesive

Supplier:

Henkel Australia Pty Ltd
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

| <u>Hazard Class</u> | <u>Hazard Category</u> | <u>Target organ</u> |
|--|------------------------|------------------------------|
| Skin irritation | Category 2 | |
| Serious eye irritation | Category 2A | |
| Skin sensitizer | Category 1 | |
| Target Organ Systemic Toxicant - Single exposure | Category 3 | respiratory tract irritation |
| Acute hazards to the aquatic environment | Category 2 | |
| Chronic hazards to the aquatic environment | Category 2 | |

Hazard pictogram:



Signal word:

Warning

| | |
|------------------------------------|---|
| Hazard statement(s): | H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H411 Toxic to aquatic life with long lasting effects. |
| 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. P273 Avoid release to the environment. P280 Wear protective gloves, eye protection, and face protection. |
| 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. P391 Collect spillage. |
| 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. |

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Section 3. Composition / information on ingredients

General chemical description: Mixture

Identity of ingredients:

| Chemical ingredients | CAS-No. | Proportion |
|---|-----------|------------|
| 3,3,5 Trimethylcyclohexyl methacrylate | 7779-31-9 | 20- < 30 % |
| 2,2'-Ethylenedioxydiethyl dimethacrylate | 109-16-0 | 1- < 10 % |
| α , α -dimethylbenzyl hydroperoxide | 80-15-9 | 1- < 3 % |
| maleic acid | 110-16-7 | < 1 % |
| Acetic acid, 2-phenylhydrazide | 114-83-0 | < 1 % |

Section 4. First aid measures

| | |
|-------------------|---|
| Ingestion: | Rinse mouth, do not induce vomiting, consult a doctor. |
| Skin: | Rinse with running water and soap. Seek medical advice. |
| Eyes: | Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary. |

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

First Aid facilities: Eye wash
Normal washroom facilities

Section 5. Fire fighting measures

Suitable extinguishing media: Carbon dioxide, foam, powder

Combustion behaviour: Non flammable product (flash point is greater than 100°C (CC))

Decomposition products in case of fire: Oxides of carbon, oxides of nitrogen, irritating organic vapors.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Section 6. Accidental release measures

Personal precautions: Wear protective equipment.
Ensure adequate ventilation.
Avoid skin and eye contact.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Scrape up spilled material and place in a closed container for disposal.

Section 7. Handling and storage

Precautions for safe handling: See advice in section 8
Use only in well-ventilated areas.
Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.
Avoid breathing vapors or mists of this product.

Conditions for safe storage: Store in a cool, well-ventilated place.
Store protected from heat influence.
cool and dry, in tightly closed containers

Section 8. Exposure controls / personal protection

National exposure standards:

None

Engineering controls: Ensure good ventilation/extraction.

Eye protection: Wear protective glasses.

Skin protection: Protective clothing that covers arms and legs.
Use of Butyl or Nitrile Rubber gloves is recommended.

Respiratory protection: Use only in well-ventilated areas.
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: Red
Liquid
Odor: Characteristic
Flash point: 100 °C (212 °F)
Estimated
Solubility in water: < 1.00000 g/l

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.
Conditions to avoid: Excessive heat.
Incompatible materials: Reducing agents.
Strong acids and oxidizing agents.
Oxygen scavengers.
Strong alkalis.
Hazardous decomposition products: Oxides of carbon.
Irritating organic vapours.

Section 11. Toxicological information

Health Effects:
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin: Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals.
Irritating to skin.
Eyes: Contact with this product may cause severe eye irritation.
Symptoms may include severe irritation, pain, tearing, blurred vision.
Inhalation: Causes respiratory tract irritation.

Acute toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|--|--|--|----------------------------------|------------------|--------------------------|--|
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 | LD0 LD50 LD0 LD50 | > 5,000 mg/kg > 5,000 mg/kg > 2,000 mg/kg > 2,000 mg/kg | oral oral dermal dermal | | rat rat rat rat | OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity) OECD Guideline 402 (Acute Dermal Toxicity) |
| 2,2'-Ethyleneoxydiethyl dimethacrylate 109-16-0 | LD50 LD50 | 10,837 mg/kg > 2,000 mg/kg | oral dermal | | rat mouse | not specified not specified |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | LD50 LD50 Acute toxicity estimate (ATE) | 382 mg/kg 530 - 1,060 mg/kg 1,100 mg/kg | oral dermal dermal | | rat rat | other guideline: other guideline: Expert judgement |
| maleic acid 110-16-7 | LD50 LD50 | 708 mg/kg 1,560 mg/kg | oral dermal | | rat rabbit | not specified not specified |
| Acetic acid, 2- phenylhydrazide 114-83-0 | LD50 | 270 mg/kg | oral | | rat | not specified |

Skin corrosion/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|---|----------------|------------------|---------|-------------|
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0 | not irritating | 24 h | rabbit | Draize Test |
| α , α -dimethylbenzyl hydroperoxide 80-15-9 | corrosive | | rabbit | Draize Test |
| maleic acid 110-16-7 | irritating | 24 h | human | Patch Test |

Serious eye damage/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|---|-------------------|------------------|---------|--|
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation/ Corrosion) |
| 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 |
|---|-------------|--|------------|---|
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0 | 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) | 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 |
|---|----------------------------------|--|--|---------|--|
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0 | negative negative negative | mammalian cell gene mutation assay bacterial reverse mutation assay (e.g Ames test) in vitro mammalian cell micronucleus test | with and without with and without with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) |
| α , α -dimethylbenzyl hydroperoxide 80-15-9 | positive | bacterial reverse mutation assay (e.g Ames test) | without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| α , α -dimethylbenzyl hydroperoxide 80-15-9 | negative | dermal | | mouse | not specified |
| 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) |

Repeated dose toxicity:

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|----------------------|-------------------------|--|---------|---|
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 | NOAEL=1,000 mg/kg | oral: gavage | 28 ddaily | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0 | NOAEL=1,000 mg/kg | oral: gavage | daily | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test) |
| α , α -dimethylbenzyl hydroperoxide 80-15-9 | | inhalation: aerosol | 6 h/d5 d/w | rat | not specified |
| maleic acid 110-16-7 | NOAEL=>= 40 mg/kg | oral: feed | 90 ddaily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

Section 12. Ecological information

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

Toxicity:

| Hazardous components CAS-No. | Value type | Value | Acute Toxicity Study | Exposure time | Species | Method |
|---|---------------|------------|----------------------------|------------------|--|--|
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 | LC50 | 1.9 mg/l | Fish | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 | EC50 | 14.43 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 | EC10 | 0.43 mg/l | Algae | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0 | LC50 | 16.4 mg/l | Fish | 96 h | Danio rerio | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0 | EC50 | > 100 mg/l | Algae | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0 | NOEC | 18.6 mg/l | Algae | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| α , α -dimethylbenzyl hydroperoxide 80-15-9 | LC50 | 3.9 mg/l | Fish | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| α , α -dimethylbenzyl hydroperoxide 80-15-9 | EC50 | 18 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| α , α -dimethylbenzyl hydroperoxide 80-15-9 | ErC50 | 3.1 mg/l | Algae | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| α , α -dimethylbenzyl hydroperoxide 80-15-9 | EC10 | 70 mg/l | Bacteria | 30 min | | not specified |
| 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 | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| maleic acid 110-16-7 | EC10 | 11.8 mg/l | Algae | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| maleic acid 110-16-7 | EC10 | 44.6 mg/l | Bacteria | 18 h | Pseudomonas putida | DIN 38412, part 8 (Pseudomonas Zellvermehrungs- mm-Test) |

Persistence and degradability:

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|---------------------------------|--------|-------------------------|---------------|--------|
|---------------------------------|--------|-------------------------|---------------|--------|

| | | | | |
|--|----------------------------|---------|---------|---|
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 | not readily biodegradable. | aerobic | 16.8 % | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0 | readily biodegradable | aerobic | 85 % | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| α , α -dimethylbenzyl hydroperoxide 80-15-9 | | no data | 0 % | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| maleic acid 110-16-7 | readily biodegradable | aerobic | 97.08 % | 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 |
|--|--------|----------------------------------|------------------|-------------|-------------|--|
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 | 5.25 | | | | 20 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0 | 2.3 | | | | | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| α , α -dimethylbenzyl hydroperoxide 80-15-9 | | 9.1 | | calculation | | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |
| α , α -dimethylbenzyl hydroperoxide 80-15-9 | 2.16 | | | | | not specified |
| maleic acid 110-16-7 | -1.3 | | | | 20 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Acetic acid, 2-phenylhydrazide 114-83-0 | 0.74 | | | | | not specified |

Section 13. Disposal considerations

Waste disposal of product: Dispose of in accordance with local and national regulations.

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

Road and Rail Transport:

Dangerous Goods information: Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Marine transport IMDG:

UN no.: 3082
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,3,5-Trimethylcyclohexyl methacrylate)
 Class or division: 9
 Packing group: III
 EmS: F-A ,S-F
 Seawater pollutant: Marine pollutant

Air transport IATA:

| | |
|----------------------------------|--|
| UN no.: | 3082 |
| Proper shipping name: | Environmentally hazardous substance, liquid, n.o.s. (3,3,5-Trimethylcyclohexyl methacrylate) |
| Class or division: | 9 |
| Packing group: | III |
| Packing instructions (passenger) | 964 |
| Packing instructions (cargo) | 964 |

Further information for transport:

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

Section 15. Regulatory information**SUSMP Poisons Schedule**

None

AICS:

All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

Section 16. Other information**Abbreviations/acronyms:**

ADGC - Australian Dangerous Goods Code
GHS: Globally Harmonized System
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

Reason for issue:

Reviewed MSDS. Reissued with new date. involved chapters: 1,2,3

Date of previous issue:

22.01.2015

Disclaimer:

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel Australia Pty. Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel Australia Pty. Limited concerning the properties of the material.

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