

SAFETY DATA SHEET

LOCTITE 620

Infosafe No.: 1LO1H

ISSUED Date : 25/05/2020

ISSUED by: HENKEL AUSTRALIA PTY LTD

1. Identification

GHS Product Identifier

LOCTITE 620

Company name

HENKEL AUSTRALIA PTY LTD

Address135-141 Canterbury Road Kilsyth
VIC 3137 AUSTRALIA**Telephone/Fax Number**

Tel: +61 (3) 9724 6444

Emergency phone number

24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Recommended use of the chemical and restrictions on use

Anaerobic Adhesive

2. Hazard Identification

GHS classification of the substance/mixture

Hazardous to the Aquatic Environment - Long-Term Hazard: Category 3

Sensitization - Skin: Category 1

STOT Single Exposure: Category 3 (respiratory tract irritation)

Acute Toxicity - Inhalation: Category 2

Eye Damage/Irritation: Category 2A

Hazardous to the Aquatic Environment - Acute Hazard: Category 3

Signal Word (s)

DANGER

Hazard Statement (s)

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement – General

Not Applicable

Pictogram (s)

Skull and crossbones

**Precautionary statement – Prevention**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

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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.
P284 [In case of inadequate ventilation] wear respiratory protection.

Precautionary statement – Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
P363 Wash contaminated clothing before reuse.
P310 Immediately call a POISON CENTER or doctor/physician.

Precautionary statement – Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Precautionary statement – Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations..

Other Information

Classification of the substance or mixture:
Hazardous according to the criteria of Safe Work Australia.

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).

3. Composition/information on ingredients

Ingredients

| Name | CAS | Proportion |
|---|-------------|------------|
| 1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione | 3006-93-7 | 10-<30 % |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | 1-<10 % |
| α,α -dimethylbenzyl hydroperoxide | 80-15-9 | 1-<3 % |
| Silica, amorphous, fumed, crystal-free | 112945-52-5 | <10 % |
| maleic acid | 110-16-7 | <1 % |
| Non hazardous ingredients~ | | 50 % |

Other Information

General chemical description:
Mixture

4. First-aid measures

Inhalation

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

Ingestion

Rinse mouth, do not induce vomiting, consult a doctor.

Skin

Rinse with running water and soap.
Seek medical advice.

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Eye contact

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

First Aid Facilities

Eye wash

Normal washroom facilities

5. Fire-fighting measures

Suitable Extinguishing Media

Carbon dioxide, foam, powder

Hazards from Combustion Products

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

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.

6. Accidental release measures

Methods And Materials For Containment And Cleaning Up

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.

Personal Precautions

Wear protective equipment.

Ensure adequate ventilation.

Avoid skin and eye contact.

Environmental Precautions

Do not allow product to enter sewer or waterways.

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, including any incompatibilities

Store in a cool, well-ventilated place.

Store protected from heat influence.

cool and dry, in tightly closed containers

8. Exposure controls/personal protection

Occupational exposure limit values

National exposure standards:

Ingredient [Regulated substance] / form of exposure / TWA (mg/m3)

OIL MIST, REFINED MINERAL 64742-52-5 - 5

SILICA, AMORPHOUS: FUMED SILICA (RESPIRABLE DUST) 112945-52-5 Respirable dust. 2

FUMED SILICA (RESPIRABLE DUST) 112945-52-5 Respirable dust. 2

Appropriate engineering controls

Ensure good ventilation/extraction.

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.

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Eye Protection

Wear protective glasses.

Body Protection

Protective clothing that covers arms and legs.

Use of Butyl or Nitrile Rubber gloves is recommended.

9. Physical and chemical properties

| Properties | Description | Properties | Description |
|------------------|--|---------------------|------------------------|
| Form | Liquid | Appearance | Green |
| Odour | Characteristic | Solubility in Water | Slightly soluble |
| Specific Gravity | 1.1 | Density | 1.16 g/cm ³ |
| Flash Point | >93.3°C (Tagliabue Closed Cup) >199.94°F (Tagliabue Closed Cup) | | |

10. Stability and reactivity

Chemical 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.

11. Toxicological Information

Toxicology Information

Acute toxicity:

Hazardous components / CAS-No.

Value type / Value / Route of application / Exposure time / Species / Method

1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7

Acute toxicity estimate (ATE) 500 mg/kg oral - - Expert judgement

LD50 > 300 - 2,000 mg/kg oral - rat OECD Guideline 423 (Acute Oral toxicity)

LC50 0.055 mg/l inhalation 4 h rat OECD Guideline 403 (Acute Inhalation Toxicity)

Methacrylic acid, monoester with propane-1,2-diol 27813-02-1

LD50 > 2,000 mg/kg oral - rat OECD Guideline 401 (Acute Oral Toxicity)

LD50 > 5,000 mg/kg dermal - rabbit not specified

a, a-dimethylbenzyl hydroperoxide 80-15-9

LD50 382 mg/kg oral - rat other guideline:

LD50 530 - 1,060 mg/kg dermal - rat other guideline:

Acute toxicity estimate (ATE) 1,100 mg/kg dermal - - Expert judgement

Silica, amorphous, fumed, crystal-free 112945-52-5

LD50 > 5,000 mg/kg oral - rat OECD Guideline 401 (Acute Oral Toxicity)

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LC50 > 58.8 mg/l inhalation - rat OECD Guideline 403 (Acute Inhalation Toxicity)
LD50 > 2,000 mg/kg dermal 4 h rabbit OECD Guideline 402 (Acute Dermal Toxicity)

maleic acid 110-16-7
LD50 708 mg/kg oral - rat not specified
LD50 1,560 mg/kg dermal - rabbit not specified

Respiratory or skin sensitization:

Hazardous components / CAS-No. / Result / Test type / Species / Method

1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 not 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)

Repeated dose toxicity:

Hazardous components / CAS-No. / Result / Route of application / Exposure time / Frequency of treatment / Species / Method

1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 NOAEL=15 mg/kg oral: gavage 42-52 ddaily rat OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 NOAEL=300 mg/kg oral: gavage - rat OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

a, a-dimethylbenzyl hydroperoxide - 80-15-9 inhalation: aerosol 6 h/d5 d/w rat not specified

Silica, amorphous, fumed, crystal-free 112945-52-5 NOAEL=< 0.046 mg/l inhalation 14 days6 hours/day, 5 days/week rat not specified

Silica, amorphous, fumed, crystal-free 112945-52-5 NOAEL=> 4,500 mg/kg oral: feed 13 weeksdaily, continuous rat -

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)

Ingestion

May cause gastrointestinal tract irritation if swallowed.

Inhalation

May cause respiratory tract irritation.

Skin

May cause allergic skin reaction.

Eye

Contact with this product may cause severe eye irritation.

Skin corrosion/irritation

Hazardous components / CAS-No. / Result / Exposure time / Species / Method

1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 not corrosive 60 min Human, EpiDermTM SIT (EPI-200), Reconstructed Human Epidermis (RHE) OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)

1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 not irritating 60 min Human, EpiDermTM SIT (EPI-200), Reconstructed Human Epidermis (RHE) OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)

Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 not irritating 24 h rabbit Draize Test

a, a-dimethylbenzyl hydroperoxide 80-15-9 corrosive - rabbit Draize Test

Silica, amorphous, fumed, crystal-free 112945-52-5 not irritating - rabbit OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

maleic acid 110-16-7 irritating 24 h human Patch Test

Serious eye damage/irritation

Hazardous components / CAS-No. / Result / Exposure time / Species / Method

1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 not irritating - Bovine, cornea, in vitro test OECD Guideline 437 (BCOP)

Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 irritating - rabbit Draize Test

Silica, amorphous, fumed, crystal-free 112945-52-5 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)

Germ cell mutagenicity

Hazardous components / CAS-No.

Result / Type of study / Route of administration / Metabolic activation / Exposure time / Species / Method

1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7

negative bacterial reverse mutation assay (e.g Ames test) with and without - OECD Guideline 471 (Bacterial Reverse Mutation Assay)

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negative in vitro mammalian chromosome aberration test with and without - OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

negative mammalian cell gene mutation assay with and without - OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Methacrylic acid, monoester with propane-1,2-diol 27813-02-1

negative bacterial reverse mutation assay (e.g Ames test) with and without - OECD Guideline 471 (Bacterial Reverse Mutation Assay)

negative mammalian cell gene mutation assay with and without - OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Methacrylic acid, monoester with propane-1,2-diol 27813-02-1

negative oral: gavage - rat - OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

a, a-dimethylbenzyl hydroperoxide 80-15-9

positive bacterial reverse mutation assay (e.g Ames test) without - OECD Guideline 471 (Bacterial Reverse Mutation Assay)

a, a-dimethylbenzyl hydroperoxide 80-15-9

negative dermal - mouse not specified

Silica, amorphous, fumed, crystal-free 112945-52-5

negative bacterial reverse mutation assay (e.g Ames test) with and without - OECD Guideline 471 (Bacterial Reverse Mutation Assay)

negative mammalian cell gene mutation assay with and without - OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

negative in vitro mammalian chromosome aberration test with and without - OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

maleic acid 110-16-7

negative bacterial reverse mutation assay (e.g Ames test) no data - Ames Test

negative mammalian cell gene mutation assay with and without - OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

12. Ecological information

Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

Harmful to aquatic organisms.

Bioaccumulative potential / Mobility in soil:

Hazardous components / CAS-No. / LogPow / Bioconcentration factor (BCF) / Species / Temperature / Method

1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 0.67 - - 24 °C OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 0.97 - - 20 °C not specified

a, a-dimethylbenzyl hydroperoxide 80-15-9 - 9.1 calculation - OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

a, a-dimethylbenzyl hydroperoxide 80-15-9 2.16 - - - not specified

Silica, amorphous, fumed, crystal-free 112945-52-5 0.53 - - - QSAR (Quantitative Structure Activity Relationship)

maleic acid 110-16-7 -1.3 - - 20 °C OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Ecotoxicity

Hazardous components / CAS-No. / Value type / Value / Acute Toxicity Study / Exposure time / Species / Method

1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 EC50 31.6 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 ErC50 67.898 mg/l Algae 72 h Desmodesmus subspicatus OECD Guideline 201 (Alga, Growth Inhibition Test)

1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 EC10 0.308 mg/l Algae 72 h Desmodesmus subspicatus OECD Guideline 201 (Alga, Growth Inhibition Test)

Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 LC50 493 mg/l Fish 48 h Leuciscus idus melanotus DIN 38412-15

Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 EC50 > 143 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202

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(Daphnia sp. Acute Immobilisation Test)

Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 EC50 > 97.2 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test)

Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 NOEC > 97.2 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test)

Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 EC10 1,140 mg/l Bacteria 16 h - not specified

a, a-dimethylbenzyl hydroperoxide 80-15-9 LC50 3.9 mg/l Fish 96 h Oncorhynchus mykiss OECD Guideline 203 (Fish, Acute Toxicity Test)

a, a-dimethylbenzyl hydroperoxide 80-15-9 EC50 18 mg/l Daphnia 48 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

a, a-dimethylbenzyl hydroperoxide 80-15-9 ErC50 3.1 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test)

a, a-dimethylbenzyl hydroperoxide 80-15-9 EC10 70 mg/l Bacteria 30 min not specified

Silica, amorphous, fumed, crystal-free 112945-52-5 LC50 > 10,000 mg/l Fish 96 h Brachydanio rerio (new name: Danio rerio) OECD Guideline 203 (Fish, Acute Toxicity Test)

Silica, amorphous, fumed, crystal-free 112945-52-5 EL50 > 1,000 mg/l Daphnia 24 h Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Silica, amorphous, fumed, crystal-free 112945-52-5 NOELR 10,000 mg/l Algae 72 h Desmodesmus subspicatus OECD Guideline 201 (Alga, Growth Inhibition Test)

Silica, amorphous, fumed, crystal-free 112945-52-5 EL50 > 10,000 mg/l Algae 72 h Desmodesmus subspicatus OECD Guideline 201 (Alga, Growth Inhibition Test)

Silica, amorphous, fumed, crystal-free 112945-52-5 EC0 10,000 mg/l Bacteria 30 min Pseudomonas putida DIN 38412, part 27 (Bacterial oxygen consumption test)

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 Zellvermehrungshemm-Test)

Persistence and degradability

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

1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 not readily biodegradable. not specified 0 - < 60 % OECD Guideline 303 A (Simulation Test Aerobic Sewage Treatment. A: Activated Sludge Units)

1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 not readily biodegradable. aerobic 0 % OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 readily biodegradable aerobic 94.2 % OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)

a, a-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)

13. Disposal considerations

Waste Disposal

Dispose of in accordance with local and national regulations.

Container Disposal

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.

14. Transport information

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).

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Marine transport IMDG:
Not dangerous goods

Air transport IATA:
Not dangerous goods

U.N. Number
None Allocated

UN proper shipping name
None Allocated

Transport hazard class(es)
None Allocated

UN Number (Air Transport, ICAO)
NCAD

IATA/ICAO Proper Shipping Name
Not dangerous for conveyance under IATA code

IMDG UN No
NCAD

IMDG Proper Shipping Name
Not dangerous for conveyance under IMO/IMDG code

15. Regulatory information

Regulatory information
SUSMP Poisons Schedule:
None

Poisons Schedule
Not Scheduled

16. Other Information

User Codes

| User Title Label | User Codes |
|------------------|------------|
| Wis Numbers | 00042313 |
| Wis Numbers | 04194418 |
| Wis Numbers | 05970614 |

Revisions Highlighted

Reason for issue:
Reviewed SDS. Reissued with new date. involved chapters: 2,3,7,15,16

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Other Information

SDS No. : 153472

V001.4

Abbreviations/acronyms:

CAS: Chemical Abstracts Service

GHS: Globally Harmonized System

LD 50: Lethal Dose 50%

LC 50: Lethal Concentration 50%

OECD: Organization for Economic Cooperation and Development

IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

IMDG: International Maritime Dangerous Goods code

ADGC - Australian Dangerous Goods Code

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END OF SDS

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