



Safety Data Sheet

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LOCTITE SF 7649 PRIMER known as LOCTITE® 7649™
PRIMER

SDS No. : 153666

V002.4

Revision: 01.03.2017

printing date: 06.07.2018

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

Product name: LOCTITE SF 7649 PRIMER known as LOCTITE® 7649™ PRIMER

Other means of identification: LOCTITE SF 7649 AE4.50OZE/S/F

Product code: IDH209715

Recommended use of the chemical and restrictions on use

Intended use: Activator

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

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> |
|--|------------------------|------------------------|
| Flammable aerosols | Category 1 | |
| Serious eye damage/eye irritation | Category 2 | |
| Specific target organ toxicity - single exposure | Category 3 | Central Nervous System |

GHS label elements:

Hazard pictogram:



Signal word:

Danger

Hazard statement: H222 Extremely flammable aerosol.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precaution:

Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P280 Wear eye protection/face protection.

Response: P304+P340+P311 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician.
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.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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 |
|---|-----------|--|
| Acetone 67-64-1 | 60- 100 % | Flammable liquids 2 H225 Serious eye damage/eye irritation 2 H319 Specific target organ toxicity - single exposure 3 H336 |
| Butane 106-97-8 | 10- 30 % | Flammable gases 1 H220 Gases under pressure |
| Propane 74-98-6 | 10- 30 % | Flammable gases 1 H220 Gases under pressure |
| 2-ethylhexanoic acid, copper salt 22221-10-9 | 0.1- 1 % | Toxic to reproduction 2 H361f |
| 2-Ethylhexanoic acid 149-57-5 | 0.1- 1 % | Toxic to reproduction 2 H361d |

Section 4. First aid measures

| | |
|--|---|
| Inhalation: | Move to fresh air. If symptoms persist, seek medical advice. |
| Skin contact: | Rinse with running water and soap. Seek medical advice. |
| Eye contact: | Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary. |
| 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 |
| Special protection equipment and precautions for firefighters: | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. |
| Hazardous combustion products: | Oxides of carbon, oxides of nitrogen, irritating organic vapors. |
| 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. Wear protective equipment. Avoid contact with skin and eyes. Wear protective equipment. |
| 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. Vapours should be extracted to avoid inhalation. Keep away from sources of ignition - no smoking. Avoid skin and eye contact. See advice in section 8 |
| Storage: | Store in a cool, well-ventilated place. Keep away from sources of ignition. |

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

| | | |
|---------------------------------|-------------------------|--|
| ACETONE 67-64-1 | Value type | Time Weighted Average (TWA): |
| | ppm | 250 |
| | Remarks | ACGIH |
| ACETONE 67-64-1 | Value type | Time Weighted Average (TWA): |
| | ppm | 500 |
| | mg/m³ | 1,187 |
| ACETONE 67-64-1 | Value type | Short Term Exposure Limit (STEL): |
| | ppm | 500 |
| | Remarks | ACGIH |
| BUTANE, ALL ISOMERS 106-97-8 | Value type | Short Term Exposure Limit (STEL): |
| | ppm | 1,000 |
| | Remarks | ACGIH |
| BUTANE 106-97-8 | Value type | Time Weighted Average (TWA): |
| | ppm | 800 |
| | mg/m³ | 1,900 |
| PROPANE 74-98-6 | Remarks | ACGIH Included in the regulation but with no data values. See regulation for further details |
| | Value type | Time Weighted Average (TWA): |
| PROPANE 74-98-6 | ppm | 2,500 |
| | Remarks | MY OEL |

Respiratory protection:

Do not inhale vapors and fumes.
Ensure adequate ventilation.
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

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.

Body protection:

Suitable protective clothing

Engineering controls:

Ensure good ventilation/extraction.

Hygienic measures:

Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Good industrial hygiene practices should be observed.

Section 9. Physical and chemical properties

| | |
|--|--------------------|
| Appearance: | green aerosol |
| Odor: | characteristic |
| Odor threshold (CA): | No data available. |
| pH: | No data available. |
| Melting point / freezing point: | No data available. |
| Specific gravity: | 0.7936 |
| Boiling point: | 56 °C (132.8 °F) |
| Flash point: (Estimated) | -20 °C (-4 °F) |
| Evaporation rate: | No data available. |
| Flammability (solid, gas): | No data available. |
| Lower explosive limit: | No data available. |
| Upper explosive limit: | No data available. |
| Vapor pressure: (; 20 °C (68 °F)) | 230 mbar |
| Vapor density: | No data available. |
| Density: | No data available. |
| Solubility: | No data available. |
| Partition coefficient: n-octanol/water: | No data available. |
| Auto ignition: | No data available. |
| Decomposition temperature: | No data available. |
| Viscosity: | No data available. |
| VOC content: (2010/75/EC) | 100 % |

Section 10. Stability and reactivity

| | |
|---|--|
| Reactivity/Incompatible materials: | Reacts with strong oxidants. |
| Chemical stability: | Stable under recommended storage conditions. |
| Conditions to avoid: | None if used for intended purpose. |
| Hazardous decomposition products: | Irritating organic vapours. |

Section 11. Toxicological information

Symptoms of Overexposure: EYE: Irritation, conjunctivitis.
Prolonged or repeated contact may cause skin irritation.

Acute oral toxicity:

| | | |
|----------------------------------|------------|---------------|
| Acetone 67-64-1 | Value type | LD50 |
| | Value | 5,800 mg/kg |
| | Species | rat |
| | Method | not specified |
| 2-Ethylhexanoic acid 149-57-5 | Value type | LD50 |
| | Value | 3,640 mg/kg |
| | Species | rat |
| | Method | BASF Test |

Acute inhalative toxicity:

| | | |
|--------------------|---------------|---------------|
| Acetone 67-64-1 | Value type | LC50 |
| | Value | 76 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | not specified |
| Butane 106-97-8 | Value type | LC50 |
| | Value | 658 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | not specified |
| Propane 74-98-6 | Value type | LC50 |
| | Value | 619 mg/l |
| | Exposure time | 4 h |
| | Species | mouse |
| | Method | not specified |

Acute dermal toxicity:

| | | |
|----------------------------------|------------|--|
| Acetone 67-64-1 | Value type | LD50 |
| | Value | > 15,688 mg/kg |
| | Species | rabbit |
| | Method | Draize Test |
| 2-Ethylhexanoic acid 149-57-5 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 402 (Acute Dermal Toxicity) |

Skin corrosion/irritation:

| | | |
|----------------------------------|---------------|--|
| Acetone 67-64-1 | Result | not irritating |
| | Exposure time | |
| | Species | guinea pig |
| | Method | not specified |
| 2-Ethylhexanoic acid 149-57-5 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

Serious eye damage/irritation:

| | | |
|----------------------------------|---------------|---|
| Acetone 67-64-1 | Result | irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| 2-Ethylhexanoic acid 149-57-5 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

Respiratory or skin sensitization:

| | | |
|--------------------|-----------|------------------------------|
| Acetone 67-64-1 | Result | not sensitising |
| | Test type | Guinea pig maximisation test |
| | Species | guinea pig |
| | Method | not specified |

Germ cell mutagenicity:

| | | |
|----------------------------------|---|--|
| Acetone 67-64-1 | 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) |
| Acetone 67-64-1 | 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) |
| Acetone 67-64-1 | Result | negative |
| | Type of study / Route of administration | mammalian cell gene mutation assay |
| | Metabolic activation / Exposure time | without |
| | Method | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Acetone 67-64-1 | Result | negative |
| | Type of study / Route of administration | oral: drinking water |
| | Metabolic activation / Exposure time | |
| | Species | mouse |
| Butane 106-97-8 | Method | not specified |
| | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| Butane 106-97-8 | Method | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| | Result | negative |
| | Type of study / Route of administration | in vitro mammalian chromosome aberration test |
| | Metabolic activation / Exposure time | with and without |
| Butane 106-97-8 | Method | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| | Result | negative |
| | Type of study / Route of administration | |
| | Metabolic activation / Exposure time | |
| Butane 106-97-8 | Species | Drosophila melanogaster |
| | Method | not specified |
| | Result | negative |
| | Type of study / Route of administration | |
| Propane 74-98-6 | Metabolic activation / Exposure time | |
| | Method | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| Propane 74-98-6 | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| | Result | negative |
| | Type of study / Route of administration | in vitro mammalian chromosome aberration test |
| Propane 74-98-6 | Metabolic activation / Exposure time | with and without |
| | Method | |
| | Result | negative |
| | Type of study / Route of administration | |
| Propane 74-98-6 | Species | Drosophila melanogaster |
| | Method | not specified |
| | Result | negative |
| | Type of study / Route of administration | |
| 2-Ethylhexanoic acid 149-57-5 | Metabolic activation / Exposure time | with and without |
| | Method | Ames Test |
| | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |

Repeated dose toxicity:

| | | |
|--------------------|--|--|
| Acetone 67-64-1 | Result | NOAEL=900 mg/kg |
| | Route of application | oral: drinking water |
| | Exposure time / Frequency of treatment | 13 wdaily |
| | Species | rat |
| | Method | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Butane 106-97-8 | Result | |
| | Route of application | inhalation: gas |
| | Exposure time / Frequency of treatment | 28 d |
| | Species | rat |
| | Method | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Propane 74-98-6 | Result | |
| | Route of application | inhalation: gas |
| | Exposure time / Frequency of treatment | 28 d |
| | Species | rat |
| | Method | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

Section 12. Ecological information**Ecotoxicity:**

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

Toxicity:

| | | |
|--------------------|----------------------|--|
| Acetone 67-64-1 | Value type | LC50 |
| | Value | 8,120 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Pimephales promelas |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Acetone 67-64-1 | Value type | EC50 |
| | Value | 8,800 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia pulex |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Acetone 67-64-1 | Value type | NOEC |
| | Value | 530 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 8 d |
| | Species | Microcystis aeruginosa |
| | Method | DIN 38412-09 |
| Acetone 67-64-1 | Value type | EC10 |
| | Value | 1,000 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 30 min |
| | Species | Pseudomonas putida |
| | Method | DIN 38412, part 27 (Bacterial oxygen consumption test) |
| Butane 106-97-8 | Value type | LC50 |
| | Value | 27.98 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | |
| | Method | not specified |
| Butane 106-97-8 | Value type | EC50 |
| | Value | 14.22 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | |
| | Method | not specified |
| Butane 106-97-8 | Value type | EC50 |
| | Value | 7.71 mg/l |
| | Acute Toxicity Study | Algae |

| | | |
|----------------------------------|----------------------|---|
| | Exposure time | 96 h |
| | Species | |
| | Method | not specified |
| 2-Ethylhexanoic acid 149-57-5 | Value type | LC50 |
| | Value | 270 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Lepomis gibbosus |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 2-Ethylhexanoic acid 149-57-5 | Value type | EC50 |
| | Value | 85.4 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 2-Ethylhexanoic acid 149-57-5 | Value type | EC50 |
| | Value | 61 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | EC10 |
| | Value | 33 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2-Ethylhexanoic acid 149-57-5 | Value type | EC10 |
| | Value | 72 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 17 h |
| | Species | |
| | Method | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test) |

Persistence and degradability:

| | | |
|----------------------------------|----------------------|--|
| Acetone 67-64-1 | Result | readily biodegradable |
| | Route of application | aerobic |
| | Degradability | 81 - 92 % |
| | Method | EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test) |
| 2-Ethylhexanoic acid 149-57-5 | Result | |
| | Route of application | aerobic |
| | Degradability | > 70 % |
| | Method | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| | Result | readily biodegradable |
| | Route of application | aerobic |
| | Degradability | 99 % |
| | Method | OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test) |

Bioaccumulative potential / Mobility in soil:

| | | |
|----------------------------------|-------------|--|
| Acetone 67-64-1 | LogPow | -0.24 |
| | Temperature | |
| | Method | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| 2-Ethylhexanoic acid 149-57-5 | LogPow | 2.7 |
| | Temperature | |
| | Method | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |

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

Road transport ADR:

Class: 2
Packing group:
Classification code: 5F
Hazard ident. number:
UN no.: 1950
Label: 2.1
Technical name: AEROSOLS

Railroad transport RID:

Class: 2
Packing group:
Classification code: 5F
Hazard ident. number: 23
UN no.: 1950
Label: 2.1
Technical name: AEROSOLS

Inland water transport ADN:

Class: 2
Packing group:
Classification code: 5F
Hazard ident. number:
UN no.: 1950
Label: 2.1
Technical name: AEROSOLS

Marine transport IMDG:

Class: 2.1
Packing group:
UN no.: 1950
Label: 2.1
EmS: F-D ,S-U
Seawater pollutant: -
Proper shipping name: AEROSOLS

Air transport IATA:

Class: 2.1
Packing group:
Packaging instructions (passenger): 203
Packaging instructions (cargo): 203
UN no.: 1950
Label: 2.1
Proper shipping name: Aerosols, flammable

Section 15. Regulatory information

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

Global inventory status:

| Regulatory list | Notification |
|-----------------|--------------|
| EINECS | yes |
| TSCA | yes |
| DSL | yes |
| ENCS (JP) | yes |
| KECI (KR) | yes |
| IECSC | yes |
| ISHL (JP) | yes |
| NZIOC | 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.