



Safety Data Sheet

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LOCTITE SF 7452 known as Loctite 7452

SDS No. : 153559

V002.5

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

Product name: LOCTITE SF 7452 known as Loctite 7452

Other means of identification: LOCTITE SF 7452 500ML EGFD

Product code: IDH399524

Recommended use of the chemical and restrictions on use

Intended use: Primer

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 liquids | Category 2 | |
| Serious eye damage/eye irritation | Category 2 | |
| Carcinogenicity | Category 1B | |
| Specific target organ toxicity - single exposure | Category 3 | Central Nervous System |

GHS label elements:

Hazard pictogram:



Signal word:

Danger

Hazard statement: H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H350 May cause cancer.

Precaution:

Prevention: P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage: P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.

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 |
| N,N-Dimethyl-p-toluidine 99-97-8 | 0.1- 1 % | Acute toxicity 4; Oral H302 Acute toxicity 4; Inhalation H332 Acute toxicity 3; Dermal H311 Carcinogenicity 1B H350 Specific target organ toxicity - repeated exposure 2 H373 Chronic hazards to the aquatic environment 3 H412 |

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 out mouth, drink 1-2 glasses of water, do not induce vomiting. Seek medical advice. |
| 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 |
| Improper extinguishing media: | High pressure waterjet |

| | |
|---|--|
| Specific hazards arising from the chemical: | In the event of a fire, carbon monoxide (CO), carbon dioxide (CO ₂) and nitrogen oxides (NO _x) can be released. Do not expose to direct heat. |
| 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

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| Personal precautions: | Avoid skin and eye contact. Ensure adequate ventilation. 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. Dispose of contaminated material as waste according to Section 13. |

Section 7. Handling and storage

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|------------------|---|
| Handling: | Vapours should be extracted to avoid inhalation. Keep away from sources of ignition - no smoking. Avoid skin and eye contact. Take measures to prevent the build-up of electrostatic charges. See advice in section 8 |
| Storage: | Store in a cool, well-ventilated place. Keep away from heat and direct sunlight. |

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 |
| | Remarks | MY OEL |
| ACETONE 67-64-1 | Value type | Short Term Exposure Limit (STEL): |
| | ppm | 500 |
| | Remarks | ACGIH |

| | |
|--------------------------------|---|
| Respiratory protection: | <p>Ensure adequate ventilation.</p> <p>An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area</p> <p>Filter type: A (EN 14387)</p> |
| Hand protection: | <p>Chemical-resistant protective gloves (EN 374).</p> <p>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)</p> <p>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)</p> <p>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.</p> |
| Eye protection: | <p>Wear protective glasses.</p> <p>Protective eye equipment should conform to EN166.</p> |
| Body protection: | <p>Wear suitable protective clothing.</p> <p>Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.</p> |
| Engineering controls: | <p>Ensure good ventilation/extraction.</p> |
| Hygienic measures: | <p>Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Good industrial hygiene practices should be observed.</p> |

Section 9. Physical and chemical properties

| | |
|--|----------------------|
| Appearance: | colourless liquid |
| Odor: | Acetone |
| Odor threshold (CA): | No data available. |
| pH: | Not applicable |
| Melting point / freezing point: | No data available. |

| | |
|--|--------------------|
| Specific gravity: | 0.7926 |
| Boiling point: | 57 °C (134.6 °F) |
| Flash point: (Tagliabue closed cup) | -17 °C (1.4 °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)) | 185 mm hg |
| Vapor density: | Heavier than air |
| Density: | 0.79 g/cm3 |
| 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: | Reaction with strong acids. Reacts with strong oxidants. |
| Chemical stability: | Stable under recommended storage conditions. |
| Conditions to avoid: | No decomposition if used according to specifications. |
| Hazardous decomposition products: | Irritating organic vapours. |

Section 11. Toxicological information

| | |
|---------------------------|---|
| Dermal toxicity: | Acute toxicity estimate (ATE) : > 2,000 mg/kg Method: Calculation method |
| Health Effects: | |
| Eyes: | Causes serious eye irritation. |
| Inhalation: | Vapours may cause drowsiness and dizziness. |
| Symptoms of Overexposure: | 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 |

Acute inhalative toxicity:

| | | |
|--------------------|---------------|---------------|
| Acetone 67-64-1 | Value type | LC50 |
| | Value | 76 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | not specified |

Acute dermal toxicity:

| | | |
|--------------------|------------|----------------|
| Acetone 67-64-1 | Value type | LD50 |
| | Value | > 15,688 mg/kg |
| | Species | rabbit |
| | Method | Draize Test |

Skin corrosion/irritation:

| | | |
|--------------------|---------------|----------------|
| Acetone 67-64-1 | Result | not irritating |
| | Exposure time | |
| | Species | guinea pig |
| | Method | not specified |

Serious eye damage/irritation:

| | | |
|--------------------|---------------|---|
| Acetone 67-64-1 | Result | 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 |
| Method | not specified | |

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) | |

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) |
| N,N-Dimethyl-p-toluidine 99-97-8 | Value type | LC 50 |
| | Value | 46 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Fathead minnow (Pimephales promelas) |
| | Method | |

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) |

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) |
| N,N-Dimethyl-p-toluidine 99-97-8 | LogPow | 2.81 |
| | Temperature | 25 °C |
| | Method | not specified |

Section 13. Disposal considerations

Product

Method of disposal: Dispose of in accordance with local and national regulations.
Collection and delivery to recycling enterprise or other registered elimination institution.

Packaging

Disposal of uncleaned packages: Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road transport ADR:

Class: 3
Packing group: II
Classification code: F1
Hazard ident. number: 33
UN no.: 1090
Label: 3
Technical name: ACETONE (solution)

Railroad transport RID:

Class: 3
Packing group: II
Classification code: F1
Hazard ident. number: 33
UN no.: 1090
Label: 3
Technical name: ACETONE (solution)

Inland water transport ADN:

Class: 3
Packing group: II
Classification code: F1
Hazard ident. number: 33
UN no.: 1090
Label: 3
Technical name: ACETONE (solution)

Marine transport IMDG:

Class: 3
Packing group: II
UN no.: 1090
Label: 3
EmS: F-E ,S-D
Seawater pollutant: -
Proper shipping name: ACETONE (solution)

Air transport IATA:

Class: 3
Packing group: II
Packaging instructions (passenger): 353
Packaging instructions (cargo): 364
UN no.: 1090
Label: 3
Proper shipping name: Acetone (solution)

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 |
| AICS | yes |
| ENCS (JP) | yes |
| KECI (KR) | yes |
| IECSC | yes |
| ISHL (JP) | yes |

Section 16. Other information

Disclaimer:

This Safety Data Sheet has been generated based on Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 [P.U.(A) 310/213]only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance. 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.