# Safety Data Sheet



LOCTITE SI 5607 400mL PART A

SDS No. : 157190
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## Section 1. Identification of the substance/preparation and of the company/undertaking

**Product name:**
LOCTITE SI 5607 400mL PART A

**Other means of identification:**
LOCTITE SI 5607 400mL PART A

**Product code:**
IDH2946008

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

**Intended use:**
Silicone sealant

**Manufacturer/Importer/Distributor Representative Company**

Henkel Thailand Ltd. The Offices at Centralworld,
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Thailand

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**E-mail address of person responsible for Safety Data Sheet:**
ap-ua-psra.sea@henkel.com

**Emergency Telephone for Chemical Accidents:**
FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call: +662 209 8008

## Section 2. Hazards identification

**GHS Classification:**

| Hazard Class | Hazard Category |
|---|---|
| Chronic hazards to the aquatic environment | Category 3 |

**GHS label elements:**

**Hazard statement:**
H412 Harmful to aquatic life with long lasting effects.

**Precaution:**

**Prevention:**
P273 Avoid release to the environment.

**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 |
|---|---|---|
| Calcium carbonate<br>471-34-1 | 30- 60 % | |
| octamethylcyclotetrasiloxane<br>556-67-2 | < 0.1 % | Flammable liquids 3<br>H226<br>Toxic to reproduction 2<br>H361<br>Chronic hazards to the aquatic environment 1<br>H410 |

## Section 4. First aid measures

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

**Skin contact:**
Rinse with running water and soap.
Obtain medical attention if irritation persists.

**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:**
water, 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 (CO2) and nitrogen oxides (NOx) can be released.
Silicon dioxide

**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

**Personal precautions:**
Avoid contact with skin and eyes.
Wear protective equipment.
Ensure adequate ventilation.

See advice in section 8

**Environmental precautions:**
Do not empty into drains / surface water / ground water.

**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

**Handling:**
Use only in well-ventilated areas.
Avoid skin and eye contact.
See advice in section 8

**Storage:**
Ensure good ventilation/extraction.
Refer to Technical Data Sheet.
Storage at 8 to 28°C is recommended.

## Section 8. Exposure controls / personal protection

**Components with specific control parameters for workplace:**

| | | |
|---|---|---|
| Calcium carbonate, respirable dust<br>471-34-1 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 5 |
| | **Remarks** | TH OEL |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles<br>471-34-1 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 3 |
| | **Remarks** | ACGIH |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles<br>471-34-1 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 10 |
| | **Remarks** | ACGIH |
| Calcium carbonate, inhalable dust<br>471-34-1 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 15 |
| | **Remarks** | TH OEL |

**Respiratory protection:**
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 (EN 14387)

**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:**
Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.
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.

**General protection and hygiene measures:**
The workplace should be equipped with an emergency shower and eye-rinsing facility.

**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:** | white<br>paste |
| **Odor:** | characteristic |
| **Odor threshold (CA):** | No data available. |
| **pH:** | Not applicable, Product is non-soluble (in water). |
| **Melting point / freezing point:** | Not applicable, Product is a liquid |
| **Specific gravity:** | 1.25 - 1.30 |
| **Boiling point:** | > 100 °C (> 212 °F) |
| **Flash point:** | > 93 °C (> 199.4 °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:**<br>(; 20 °C (68 °F)) | < 10 mm hg |
| **Vapor density:** | > 1 |
| **Density:** | 1.5700 g/cm3 |
| **Solubility:** | Insoluble (20 °C) |
| **Partition coefficient: n-octanol/water:** | No data available. |
| **Auto ignition:** | No data available. |
| **Decomposition temperature:** | No data available. |
| **Viscosity:** | 25,000 - 60,000 mPa.s (Cone and plate; 25 °C (77 °F); speed of rotation: 20 min-1; Method: ;; LCT STM 738; Rheological Data from flow curves) |
| **VOC content:**<br>(2010/75/EC) | < 5.00 % |

## Section 10. Stability and reactivity

**Reactivity/Incompatible materials:**
Reacts with oxidants, acids and lyes
**Chemical stability:**
Stable under recommended storage conditions.
**Conditions to avoid:**
Stable under normal conditions of storage and use.
Excessive heat.
**Hazardous decomposition products:**
None if used for intended purpose.

## Section 11. Toxicological information

Symptoms of Overexposure**:** Prolonged or repeated contact may cause eye irritation.
Prolonged or repeated contact may cause skin irritation.

**Acute oral toxicity:**

| | | |
|---|---|---|
| Calcium carbonate<br>471-34-1 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 420 (Acute Oral Toxicity) |
| octamethylcyclotetrasiloxane<br>556-67-2 | Value type | LD50 |
| | Value | > 4,800 mg/kg |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |

**Acute inhalative toxicity:**

| | | |
|---|---|---|
| Calcium carbonate<br>471-34-1 | Value type | LC50 |
| | Value | > 3 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | OECD Guideline 403 (Acute Inhalation Toxicity) |
| octamethylcyclotetrasiloxane<br>556-67-2 | Value type | LC50 |
| | Value | 36 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | OECD Guideline 403 (Acute Inhalation Toxicity) |

**Acute dermal toxicity:**

| | | |
|---|---|---|
| Calcium carbonate<br>471-34-1 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 402 (Acute Dermal Toxicity) |
| octamethylcyclotetrasiloxane<br>556-67-2 | Value type | LD50 |
| | Value | > 2,375 mg/kg |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |

**Skin corrosion/irritation:**

| | | |
|---|---|---|
| Calcium carbonate<br>471-34-1 | Result | not irritating |
| | Exposure time | 4 h |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| octamethylcyclotetrasiloxane<br>556-67-2 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

| | | |
|---|---|---|
| Calcium carbonate<br>471-34-1 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| octamethylcyclotetrasiloxane<br>556-67-2 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

| | | |
|---|---|---|
| Calcium carbonate<br>471-34-1 | Result | not sensitising |
| | Test type | Mouse local lymphnode assay (LLNA) |
| | Species | mouse |
| | Method | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| octamethylcyclotetrasiloxane<br>556-67-2 | Result | not sensitising |
| | Test type | Guinea pig maximisation test |
| | Species | guinea pig |
| | Method | OECD Guideline 406 (Skin Sensitisation) |

**Germ cell mutagenicity:**

| | | |
|---|---|---|
| Calcium carbonate<br>471-34-1 | 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) |
| Calcium carbonate<br>471-34-1 | 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) |
| Calcium carbonate<br>471-34-1 | 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) |
| octamethylcyclotetrasiloxane<br>556-67-2 | Result | negative |
| | Type of study / Route of administration | bacterial gene mutation assay |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| octamethylcyclotetrasiloxane<br>556-67-2 | Result | negative |
| | Type of study / Route of administration | in vitro mammalian chromosome aberration test |
| | Metabolic activation / Exposure time | with and without |
| | Method | equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| octamethylcyclotetrasiloxane<br>556-67-2 | Result | negative |
| | Type of study / Route of administration | mammalian cell gene mutation assay |
| | Metabolic activation / Exposure time | with and without |
| | Method | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| octamethylcyclotetrasiloxane<br>556-67-2 | Result | negative |
| | Type of study / Route of administration | inhalation |
| | Metabolic activation / Exposure time | |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 475<br>(Mammalian Bone Marrow Chromosome Aberration Test) |
| octamethylcyclotetrasiloxane<br>556-67-2 | Result | negative |
| | Type of study / Route of administration | oral: gavage |
| | Metabolic activation / Exposure time | |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) |

**Repeated dose toxicity:**

| | | |
|---|---|---|
| Calcium carbonate<br>471-34-1 | Result | NOAEL=1,000 mg/kg |
| | Route of application | oral: gavage |
| | Exposure time / Frequency of treatment | 48 ddaily |
| | Species | rat |
| | Method | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| octamethylcyclotetrasiloxane<br>556-67-2 | Result | LOAEL=35 ppm |
| | Route of application | inhalation |
| | Exposure time / Frequency of treatment | 6 h nose only inhalation5 days/week for 13 weeks |
| | Species | rat |
| | Method | OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day) |
| octamethylcyclotetrasiloxane<br>556-67-2 | Result | NOAEL=960 mg/kg |
| | Route of application | dermal |
| | Exposure time / Frequency of treatment | 3 w5 d/w |
| | Species | rabbit |
| | Method | equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |

## Section 12. Ecological information

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

**Ecotoxicity:** H412 Harmful to aquatic life with long lasting effects.

**Toxicity:**

| | | |
|---|---|---|
| Calcium carbonate<br>471-34-1 | Value type | LC50 |
| | Value | Toxicity > Water solubility |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Oncorhynchus mykiss |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Calcium carbonate<br>471-34-1 | 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) |
| Calcium carbonate<br>471-34-1 | Value type | EC50 |
| | Value | Toxicity > Water solubility |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Desmodesmus subspicatus |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | NOEC |
| | Value | 14 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Desmodesmus subspicatus |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Calcium carbonate<br>471-34-1 | Value type | EC50 |
| | Value | Toxicity > Water solubility |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 3 h |
| | Species | activated sludge of a predominantly domestic sewage |
| | Method | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| octamethylcyclotetrasiloxane<br>556-67-2 | Value type | NOEC |
| | Value | 0.0044 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 93 d |

| | | |
|---|---|---|
| | Species | Salmo gairdneri (new name: Oncorhynchus mykiss) |
| | Method | EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test) |
| | Value type | LC50 |
| | Value | Toxicity > Water solubility |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Oncorhynchus mykiss |
| | Method | EPA OTS 797.1400 (Fish Acute Toxicity Test) |
| octamethylcyclotetrasiloxane 556-67-2 | Value type | EC50 |
| | Value | Toxicity > Water solubility |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) |
| octamethylcyclotetrasiloxane 556-67-2 | Value type | EC50 |
| | Value | Toxicity > Water solubility |
| | Acute Toxicity Study | Algae |
| | Exposure time | 96 h |
| | Species | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) |
| | Method | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |
| | Value type | EC10 |
| | Value | 0.022 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 96 h |
| | Species | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) |
| | Method | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |
| octamethylcyclotetrasiloxane 556-67-2 | Value type | EC50 |
| | Value | Toxicity > Water solubility |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 3 h |
| | Species | activated sludge |
| | Method | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |

**Persistence and degradability:**

| | | |
|---|---|---|
| octamethylcyclotetrasiloxane 556-67-2 | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 3.7 % |
| | Method | OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test) |

**Bioaccumulative potential / Mobility in soil:**

| | | |
|---|---|---|
| Calcium carbonate 471-34-1 | LogPow | -2.12 |
| | Temperature | |
| | Method | not specified |
| octamethylcyclotetrasiloxane 556-67-2 | Bioconcentration factor (BCF) | 12,400 |
| | Exposure time | 28 d |
| | Species | Pimephales promelas |
| | Temperature | |
| | Method | EPA OTS 797.1520 (Fish Bioconcentration Test-Rainbow Trout) |
| octamethylcyclotetrasiloxane 556-67-2 | LogPow | 6.98 |
| | Temperature | 21.7 °C |
| | Method | other guideline: |

## Section 13. Disposal considerations

**Product**

**Method of disposal:**
Dispose of in accordance with local and national regulations.

**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:**
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:**
Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555

**Global inventory status:**

| Regulatory list | Notification |
|---|---|
| TSCA | yes |
| DSL | yes |
| KECI (KR) | yes |
| ENCS (JP) | yes |
| ISHL (JP) | yes |
| IECSC | yes |
| AIIC | yes |
| TCSI | yes |
| PICCS (PH) | yes |
| EINECS | yes |

## Section 16. Other information

**Disclaimer:**
This Safety Data Sheet has been generated based on Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555 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.
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).