



Safety Data Sheet

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LOCTITE 55 48X160M EN

SDS No. : 168432

V001.11

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

Product name:

LOCTITE 55 48X160M EN

Other means of identification:

LOCTITE 55 48X160M EN

Product code:

IDH2056938

Recommended use of the chemical and restrictions on use

Intended use:

Adhesive

Manufacturer/Importer/Distributor Representative Company

Henkel Thailand Ltd. The Offices at Centralworld,
35th Floor, 999/9 Rama 1 Rd.,
Kwang Patumwan, Khet Patumwan,
10330 Bangkok

Thailand

Phone: +66 (2209) 8000

Fax-no.: +66 (2209) 8008

E-mail address of person responsible for Safety Data Sheet:

ap-ua-psra.sea@henkel.com

Emergency Telephone for Chemical Accidents:

FOR EMERGENCIAS ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

Substance or mixture is not classified as hazardous according to Globally Harmonized System(GHS).

GHS label elements:

Substance or mixture is not classified as hazardous according to Globally Harmonized System(GHS).

Section 3. Composition / information on ingredients

Substance or Mixture:
Mixture

Declaration of hazardous chemical:

| Hazard component CAS-No. | Content | GHS Classification |
|--|----------|--|
| Limestone 1317-65-3 | 30- 60 % | |
| Talc 14807-96-6 | 1- 10 % | |
| octamethylcyclotetrasiloxane 556-67-2 | < 0.1 % | Flammable liquids 3 H226 Toxic to reproduction 2 H361 Chronic hazards to the aquatic environment 1 H410 |

Section 4. First aid measures

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap.
Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water, seek medical advice if necessary.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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) and carbon dioxide (CO₂) can be released.

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:

Wear protective equipment.
Avoid skin and eye contact.
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:

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

Storage:

Store in a cool, dry place.
Keep container tightly sealed.
Refer to Technical Data Sheet

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

| | | |
|--|-------------------------|--|
| CALCIUM CARBONATE, RESPIRABLE DUST 1317-65-3 | Value type | Time Weighted Average (TWA): |
| | mg/m³ | 5 |
| | Remarks | TH OEL |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles 1317-65-3 | Value type | Time Weighted Average (TWA): |
| | mg/m³ | 10 |
| | Remarks | ACGIH |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles 1317-65-3 | Value type | Time Weighted Average (TWA): |
| | mg/m³ | 3 |
| | Remarks | ACGIH |
| Limestone 1317-65-3 | Value type | Time Weighted Average (TWA): |
| | mg/m³ | 10 |
| | Remarks | |
| CALCIUM CARBONATE, INHALABLE DUST 1317-65-3 | Value type | Time Weighted Average (TWA): |
| | mg/m³ | 15 |
| | Remarks | TH OEL |
| TALC, CONTAINING NO ASBESTOS FIBERS, RESPIRABLE FRACTION 14807-96-6 | Value type | Time Weighted Average (TWA): |
| | mg/m³ | 2 |
| | Remarks | ACGIH The value is for particulate matter containing no asbestos and <1% crystalline silica. |
| TALC CONTAINING NO ASBESTOS FIBRES, RESPIRABLE DUST 14807-96-6 | Value type | Time Weighted Average (TWA): |
| | mg/m³ | 2 |
| | 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:

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 paste |
| Odor: | characteristic |
| Odor threshold (CA): | No data available. |
| pH: | Not applicable, Product is non-polar/aprotic. |
| Melting point / freezing point: | Not applicable, Determination technically not possible |
| Specific gravity: | 1.25 |
| Boiling point: | > 150 °C (> 302 °F) |
| Flash point: | > 93 °C (> 199.4 °F) |
| | (Closed cup) |
| 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: | < 0.13 mbar |
| | (; 20 °C (68 °F)) |
| Vapor density: | Not applicable, Product is a solid. |
| Density: | No data available. |
| Solubility: | Partially soluble (23 °C) |
| Partition coefficient: n-octanol/water: | No data available. |
| Auto ignition: | No data available. |
| Decomposition temperature: | No data available. |
| Viscosity: | No data available. |
| VOC content: | < 3 % |
| | (2010/75/EC) |

Section 10. Stability and reactivity

Reactivity/Incompatible materials:

None if used for intended purpose.

Chemical stability:

Stable under recommended storage conditions.

Conditions to avoid:

None if used for intended purpose.

Hazardous decomposition products:

No decomposition if used according to specifications.

Section 11. Toxicological information

Symptoms of Overexposure: None known.

Acute oral toxicity:

| | | |
|--|------------|---|
| Limestone 1317-65-3 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 420 (Acute Oral Toxicity) |
| Talc 14807-96-6 | Value type | LD50 |
| | Value | > 5,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 423 (Acute Oral toxicity) |
| octamethylcyclotetrasiloxane 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:

| | | |
|--|---------------|--|
| Limestone 1317-65-3 | Value type | LC50 |
| | Value | > 3 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Talc 14807-96-6 | Value type | LC50 |
| | Value | > 2.1 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | OECD Guideline 403 (Acute Inhalation Toxicity) |
| octamethylcyclotetrasiloxane 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:

| | | |
|--|------------|---|
| Limestone 1317-65-3 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 402 (Acute Dermal Toxicity) |
| | | |
| Talc 14807-96-6 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 402 (Acute Dermal Toxicity) |
| | | |
| octamethylcyclotetrasiloxane 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:

| | | |
|--|---------------|---|
| Limestone 1317-65-3 | Result | not irritating |
| | Exposure time | 4 h |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| | | |
| Talc 14807-96-6 | Result | slightly irritating |
| | Exposure time | 4 h |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| | | |
| octamethylcyclotetrasiloxane 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:

| | | |
|--|---------------|--|
| Limestone 1317-65-3 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| | | |
| Talc 14807-96-6 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| | | |
| octamethylcyclotetrasiloxane 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:

| | | |
|--|-----------|---|
| Limestone 1317-65-3 | Result | not sensitising |
| | Test type | Mouse local lymphnode assay (LLNA) |
| | Species | mouse |
| | Method | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Talc 14807-96-6 | Result | not sensitising |
| | Test type | Guinea pig maximisation test |
| | Species | guinea pig |
| | Method | OECD Guideline 406 (Skin Sensitisation) |
| octamethylcyclotetrasiloxane 556-67-2 | Result | not sensitising |
| | Test type | Guinea pig maximisation test |
| | Species | guinea pig |
| | Method | OECD Guideline 406 (Skin Sensitisation) |

Germ cell mutagenicity:

| | | |
|--|---|---|
| Limestone 1317-65-3 | 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) |
| Limestone 1317-65-3 | 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) |
| Limestone 1317-65-3 | 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) |
| Talc 14807-96-6 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| | Method | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Talc 14807-96-6 | Result | negative |
| | Type of study / Route of administration | in vitro mammalian cell transformation assay |
| | Metabolic activation / Exposure time | without |
| | Method | equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Talc 14807-96-6 | Result | negative |
| | Type of study / Route of administration | oral: gavage |
| | Metabolic activation / Exposure time | |
| | Species | rat |
| octamethylcyclotetrasiloxane 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 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 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 556-67-2 | Result | negative |
| | Type of study / Route of administration | inhalation |
| | Metabolic activation / Exposure time | |
| | Species | rat |
| octamethylcyclotetrasiloxane 556-67-2 | Result | negative |
| | Type of study / Route of administration | oral: gavage |
| | Metabolic activation / Exposure time | |
| | Species | rat |
| octamethylcyclotetrasiloxane 556-67-2 | Result | negative |
| | Type of study / Route of administration | oral: gavage |
| | Metabolic activation / Exposure time | |
| | Method | equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) |

Repeated dose toxicity:

| | | |
|--|--|--|
| Limestone 1317-65-3 | 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) |
| Talc 14807-96-6 | Result | NOAEL=100 mg/kg |
| | Route of application | oral: feed |
| | Exposure time / Frequency of treatment | 101 d7 d/w |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 452 (Chronic Toxicity Studies) |
| octamethylcyclotetrasiloxane 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 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.

Toxicity:

| | | |
|------------------------|----------------------|--|
| Limestone 1317-65-3 | Value type | LC50 |
| | Value | > 10,000 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Oncorhynchus mykiss |
| | Method | not specified |
| Limestone 1317-65-3 | Value type | EC50 |
| | Value | > 1,000 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | not specified |
| Limestone 1317-65-3 | Value type | EC50 |
| | Value | > 200 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Desmodesmus subspicatus |
| | Method | not specified |
| Limestone 1317-65-3 | Value type | EC50 |
| | Value | > 1,000 mg/l |
| | 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) |
| Talc 14807-96-6 | Value type | LC50 |
| | Value | Toxicity > Water solubility |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Brachydanio rerio (new name: Danio rerio) |

| | | |
|--|----------------------|--|
| octamethylcyclotetrasiloxane 556-67-2 | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| | 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 |
| octamethylcyclotetrasiloxane 556-67-2 | Method | EPA OTS 797.1400 (Fish Acute Toxicity Test) |
| | Value type | EC50 |
| | Value | Toxicity > Water solubility |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| octamethylcyclotetrasiloxane 556-67-2 | Method | EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) |
| | 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) |
| octamethylcyclotetrasiloxane 556-67-2 | Method | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |
| | 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 Biodegradability CO ₂ in Sealed Vessels (Headspace Test)) |

Bioaccumulative potential / Mobility in soil:

| | | |
|--|-------------------------------|---|
| Talc 14807-96-6 | LogPow | -9.4 |
| | Temperature | 25 °C |
| | Method | QSAR (Quantitative Structure Activity Relationship) |
| octamethylcyclotetrasiloxane 556-67-2 | Bioconcentration factor (BCF) | 12,400 |
| | Exposure time | 28 d |
| | Species | Pimephales promelas |
| | Temperature | |
| octamethylcyclotetrasiloxane 556-67-2 | Method | EPA OTS 797.1520 (Fish Bioconcentration Test-Rainbow Trout) |
| | 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 |
| IECSC | yes |
| AIIC | yes |
| NZIOC | yes |
| TCSI | yes |
| PICCS (PH) | yes |
| EINECS | yes |

| |
|--------------------------------------|
| Section 16. Other information |
|--------------------------------------|

Disclaimer:

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