

Safety Data Sheet

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LOCTITE 518 GASKET ELIMINATOR TT50MLAU

SDS No. : 544621 V001.2
Revision: 13.04.2023
printing date: 17.05.2023**SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER****Product name:** LOCTITE 518 GASKET ELIMINATOR TT50MLAU**Intended use:** Anaerobic Sealant**Supplier:**
Henkel New Zealand Ltd
2 Allens Rd
Auckland, 2013
New Zealand
Phone: +64 (9) 272-6710**Emergency Telephone
for Chemical Accidents:** 24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622**SECTION 2 HAZARDS IDENTIFICATION****Classification of the substance or mixture**

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO). Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

GHS Classification:

| <u>Hazard Class</u> | <u>Hazard Category</u> | <u>Target organ</u> |
|---|------------------------|------------------------------|
| Skin irritation | Category 2 | |
| Serious eye irritation | Category 2A | |
| Skin sensitizer | Category 1 | |
| Target Organ Systemic Toxicant - Single exposure | Category 3 | respiratory tract irritation |
| Acute hazards to the aquatic environment | Category 3 | |
| Chronic hazards to the aquatic environment | Category 3 | |

Hazard pictogram:**Signal word:**

Warning

Hazard statement(s): H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):
Prevention: P261 Avoid breathing mist/vapours.
P264 Wash hands thoroughly after handling.
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.

Response: P302+P352 IF ON SKIN: Wash with plenty of water.
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.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

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

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

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description: Mixture

Identity of ingredients:

| Chemical ingredients | CAS-No. | Proportion |
|---|-------------|-------------|
| 2-Hydroxy-3-phenoxypropyl methacrylate | 16926-87-7 | 10- < 20 % |
| 3,3,5 Trimethylcyclohexyl methacrylate | 7779-31-9 | 1- < 10 % |
| 2-Hydroxyethyl methacrylate | 868-77-9 | 1- < 10 % |
| Silica, amorphous, fumed, cryst.-free | 112945-52-5 | 1- < 10 % |
| 3-[2-(Methacryloyloxy)ethoxycarbonyl]propionic acid | 20882-04-6 | 0.1- < 1 % |
| Acetic acid, 2-phenylhydrazide | 114-83-0 | 0.1- < 1 % |
| methacrylic acid | 79-41-4 | 0.1- < 1 % |
| 2-Propenoic acid, 2-carboxyethyl ester | 24615-84-7 | 0.1- < 1 % |
| Limonene D | 5989-27-5 | 0.1- < 1 % |
| non hazardous ingredients~ | | 30- <= 60 % |

SECTION 4 FIRST AID MEASURES

| | |
|---|---|
| Ingestion: | Rinse mouth, do not induce vomiting, consult a doctor. |
| Skin: | Immediately wash skin thoroughly with soap and water. Seek medical advice. |
| Eyes: | Immediately flush eyes with plenty of water for at least 15 minutes. Immediate medical treatment necessary. |
| Inhalation: | Move to fresh air, consult doctor if complaint persists. |
| First Aid facilities: | Eye wash and safety shower Normal washroom facilities |
| Medical attention and special treatment: | Treat symptomatically. |

SECTION 5. FIRE FIGHTING MEASURES

| | |
|--|---|
| Suitable extinguishing media: | Foam, dry chemical or carbon dioxide. |
| Decomposition products in case of fire: | Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. |
| Special protective equipment for fire-fighters: | Wear full protective clothing. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA). |
| Additional fire fighting advice: | In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------------|--|
| Personal precautions: | Remove sources of ignition. Avoid skin and eye contact. Wear protective equipment. Ensure adequate ventilation. |
| Environmental precautions: | Do not empty into drains / surface water / ground water. |
| Clean-up methods: | Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of contaminated material as waste according to Section 13. |

SECTION 7. HANDLING AND STORAGE

| | |
|---------------------------------------|--|
| Precautions for safe handling: | See advice in section 8 Use only in well-ventilated areas. Avoid skin and eye contact. Wear protective equipment. |
| Conditions for safe storage: | Store between 50°F and 80°F. (10° and 27°C) Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Store below 100°F (38°C). |

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure standards:

| Ingredient [Regulated substance] | form of exposure | TWA (ppm) | TWA (mg/m3) | Ceiling | STEL (ppm) | STEL (mg/m3) |
|---|------------------|-----------|-------------|---------|------------|--------------|
| Particulates not otherwise classified, respirable dust Respirable dust (not otherwise classified) 112945-52-5 | Respirable dust. | | 3 | ~ | ~ | ~ |
| Particulates not otherwise classified, inhalable dust Inhalable dust (not otherwise classified) | Inhalable dust. | | 10 | ~ | ~ | ~ |
| METHACRYLIC ACID 79-41-4 | | 20 | 70 | ~ | ~ | ~ |

Biological Exposure Indices:

None

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.

Eye protection:

For eye protection, use tightly fitted safety goggles and a face-shield

Skin protection:

Use of an impervious apron is recommended.
Suitable protective gloves.
Recommended gloves include butyl rubber and neoprene.
Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature).
Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Respiratory protection:

If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

red
liquid

Odor:

mild

pH:

Not applicable, Product is non-polar/aprotic.

Melting point / freezing point:

Not applicable, Product is a liquid

Boiling point:

> 150 °C (> 302 °F)

Flash point:

> 100 °C (> 212 °F)

(no method / method unknown)

Vapor pressure:

< 0.13 mbar

(; 20 °C (68 °F))

Vapor density:

> 1

Density:

1.1 g/cm3

Solubility in water:

Not miscible

SECTION 10. STABILITY AND REACTIVITY

| | |
|--|--|
| Stability: | Stable under normal conditions of temperature and pressure. |
| Conditions to avoid: | Excessive heat. |
| Incompatible materials: | Oxidizing agents. Aldehydes. Reducing agents. Reaction with strong acids. |
| Hazardous decomposition products: | Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. |

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:**Ingestion:**

May cause gastrointestinal disturbances.
Ingestion of large quantities may cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Skin:

Causes skin irritation.
Symptoms may include redness, edema, drying, defatting and cracking of the skin.
May cause skin sensitization.

Eyes:

Causes serious eye damage.
Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Inhalation:

This product is irritating to the respiratory system.
Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Acute toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|--|--|---|--|---------------|--------------------------|---|
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 | LD0 LD50 LD0 LD50 | > 5,000 mg/kg > 5,000 mg/kg > 2,000 mg/kg > 2,000 mg/kg | oral oral dermal dermal | | rat rat rat rat | OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity) OECD Guideline 402 (Acute Dermal Toxicity) |
| 2-Hydroxyethyl methacrylate 868-77-9 | LD50 LD50 | 5,564 mg/kg > 5,000 mg/kg | oral dermal | | rat rabbit | FDA Guideline not specified |
| Silica, amorphous, fumed, cryst.-free 112945-52-5 | LD50 LC0 LD50 | > 5,000 mg/kg 0.139 mg/l > 2,000 mg/kg | oral inhalation dermal | 4 h | rat rat rabbit | OECD Guideline 401 (Acute Oral Toxicity) not specified OECD Guideline 402 (Acute Dermal Toxicity) |
| 3-[2-(Methacryloyloxy)ethoxy carbonyl]propionic acid 20882-04-6 | LD50 | > 2,000 mg/kg | oral | | rat | OECD Guideline 423 (Acute Oral toxicity) |
| Acetic acid, 2-phenylhydrazide 114-83-0 | LD50 | 270 mg/kg | oral | | rat | not specified |
| methacrylic acid 79-41-4 | LD50 LC50 Acute toxicity estimate (ATE) LD50 Acute toxicity estimate (ATE) | 1,320 mg/kg > 3.6 mg/l 3.61 mg/l 500 - 1,000 mg/kg 500 mg/kg | oral inhalation inhalation dermal dermal | 4 h | rat rat rabbit | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) Expert judgement Dermal Toxicity Screening Expert judgement |
| Limonene D 5989-27-5 | LD50 LD50 | > 5,000 mg/kg > 5,000 mg/kg | oral dermal | | rat rabbit | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |

Skin corrosion/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|--|-----------------------|---------------|---|--|
| 2-Hydroxyethyl methacrylate 868-77-9 | slightly irritating | 24 h | rabbit | Draize Test |
| Silica, amorphous, fumed, cryst.-free 112945-52-5 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 3-[2-(Methacryloyloxy)ethoxy carbonyl]propionic acid 20882-04-6 | not irritating | 0.25 h | Human, EPISKIINTM Reconstituted Human Epidermis model | OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method) |
| 3-[2-(Methacryloyloxy)ethoxy carbonyl]propionic acid 20882-04-6 | Not Classified | 4 h | Human, EPISKIINTM Reconstituted Human Epidermis model | OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method) |
| methacrylic acid 79-41-4 | corrosive | 3 min | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Limonene D 5989-27-5 | moderately irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

Serious eye damage/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|--|---|---------------|-------------------------------|---|
| 2-Hydroxyethyl methacrylate 868-77-9 | Category 2B (mildly irritating to eyes) | | rabbit | Draize Test |
| Silica, amorphous, fumed, cryst.-free 112945-52-5 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| 3-[2-(Methacryloyloxy)ethoxy carbonyl]propionic acid 20882-04-6 | Category I | 10 min | Bovine, cornea, in vitro test | OECD Guideline 437 (BCOP) |
| methacrylic acid 79-41-4 | corrosive | | rabbit | Draize Test |
| Limonene D 5989-27-5 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

Respiratory or skin sensitization:

| Hazardous components CAS-No. | Result | Test type | Species | Method |
|---|-----------------|------------------------------------|------------|--|
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| 2-Hydroxyethyl methacrylate 868-77-9 | not sensitising | Buehler test | guinea pig | Buehler test |
| 2-Hydroxyethyl methacrylate 868-77-9 | sensitising | Guinea pig maximisation test | guinea pig | Magnusson and Kligman Method |
| methacrylic acid 79-41-4 | not sensitising | Buehler test | guinea pig | equivalent or similar to OECD Guideline 406 (Skin Sensitisation) |
| Limonene D 5989-27-5 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |

Germ cell mutagenicity:

| Hazardous components CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|--|--|--|--|--------------------------------|---|
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| 2-Hydroxyethyl methacrylate 868-77-9 | negative positive negative | bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay | with and without with and without with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| 2-Hydroxyethyl methacrylate 868-77-9 | negative negative | oral: gavage oral: gavage | | rat Drosophila melanogaster | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) not specified |
| Silica, amorphous, fumed, cryst.-free 112945-52-5 | negative negative negative | bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro | | | not specified not specified not specified |
| 3-[2-(Methacryloyloxy)ethoxy carbonyl]propionic acid 20882-04-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| methacrylic acid 79-41-4 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| methacrylic acid 79-41-4 | negative negative | inhalation oral: gavage | | mouse mouse | equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Limonene D 5989-27-5 | negative negative negative negative | bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay sister chromatid exchange assay in mammalian cells | with and without with and without with and without with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) equivalent or similar to OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells) |
| Limonene D 5989-27-5 | negative | oral: gavage | | rat | not specified |

Repeated dose toxicity:

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|-------------------|----------------------|--|---------|--|
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 | NOAEL=1,000 mg/kg | oral: gavage | 28 ddaily | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| 2-Hydroxyethyl methacrylate 868-77-9 | NOAEL=100 mg/kg | oral: gavage | 49 ddaily | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| 2-Hydroxyethyl methacrylate 868-77-9 | NOAEL=0.352 mg/l | inhalation | 90 d6 h/d, 5 d/w | rat | OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day) |
| methacrylic acid 79-41-4 | | inhalation | 90 d6 h/d, 5 d/w | rat | OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day) |
| Limonene D 5989-27-5 | NOAEL=825 mg/kg | oral: gavage | 16 d5 d/w | rat | equivalent or similar to OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |

SECTION 12. ECOLOGICAL INFORMATION**General ecological information:**

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

| | | | | | | |
|--------------------------------------|------|------------|----------|------|---|--|
| 5989-27-5 Limonene D 5989-27-5 | EC50 | 0.577 mg/l | Daphnia | 48 h | Daphnia magna | 212 (Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) OECD Guideline 201 (Alga, Growth Inhibition Test) OECD Guideline 201 (Alga, Growth Inhibition Test) OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| 5989-27-5 Limonene D 5989-27-5 | EC50 | 0.32 mg/l | Algae | 72 h | Pseudokirchneriella subcapitata | |
| 5989-27-5 Limonene D 5989-27-5 | EC10 | 0.174 mg/l | Algae | 72 h | Pseudokirchneriella subcapitata | |
| 5989-27-5 Limonene D 5989-27-5 | EC10 | 18 mg/l | Bacteria | 3 h | activated sludge of a predominantly domestic sewage | |

Persistence and degradability:

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|---|--|----------------------|---------------|---|
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 | not readily biodegradable. | aerobic | 16.8 % | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| 2-Hydroxyethyl methacrylate 868-77-9 | readily biodegradable | aerobic | 92 - 100 % | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| 3-[2-(Methacryloyloxy)ethoxycarbonyl]propionic acid 20882-04-6 | readily biodegradable, but failing 10-day window | aerobic | 80 % | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| methacrylic acid 79-41-4 | inherently biodegradable | aerobic | 100 % | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| methacrylic acid 79-41-4 | readily biodegradable | aerobic | 86 % | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| Limonene D 5989-27-5 | readily biodegradable | aerobic | 71.4 % | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |

Bioaccumulative potential / Mobility in soil:

| Hazardous components CAS-No. | LogPow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method |
|---|--------|-------------------------------|---------------|---------|-------------|--|
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9 | 5.25 | | | | 20 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| 2-Hydroxyethyl methacrylate 868-77-9 | 0.42 | | | | 25 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| 3-[2-(Methacryloyloxy)ethoxycarbonyl]propionic acid 20882-04-6 | 0.783 | | | | 23 °C | EU Method A.8 (Partition Coefficient) |
| Acetic acid, 2-phenylhydrazide 114-83-0 | 0.74 | | | | | not specified |
| methacrylic acid 79-41-4 | 0.93 | | | | 22 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Limonene D 5989-27-5 | 4.57 | | | | | not specified |

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal of product: Waste incineration or disposal with the approval of the responsible local authority. Collection and delivery to recycling enterprise or other registered elimination institution.

Disposal for uncleaned package:

SECTION 14. TRANSPORT INFORMATION

Dangerous Goods information:

Land transport:
Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

Marine transport IMDG:
Not dangerous goods

Air transport IATA:
Not dangerous goods

SECTION 15. REGULATORY INFORMATION

New Zealand regulatory information:
Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

HSNO Approval Number: Group standard HSR002670

Site and Storage: Refer to the site and storage requirements for this Group Standard.

NZIoC: Not Compliant for NZIOC

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: STEL - Short term exposure limit
TWA - Time weighted average
HSNO - Hazardous Substances and New Organisms
GHS: Globally Harmonized System
CAS: Chemical Abstracts Service
LD 50: Lethal Dose 50%
LC 50: Lethal Concentration 50%
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 1-16

Date of previous issue: 26.07.2022

Disclaimer:

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