# Safety Data Sheet



LOCTITE SUPERFLEX BLACK MAXX

SDS No. : 152851
V001.1
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## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name:** LOCTITE SUPERFLEX BLACK MAXX

**Intended use:** Silicone sealant

**Supplier:**

Henkel New Zealand Ltd
2 Allens Rd
Auckland, 2013
New Zealand
Phone: +64 (9) 272-6710

**Emergency information:** 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 according to NZS 5433: 2012 and the Land Transport Rule: Dangerous Goods 2005.

**GHS Classification:**

| Hazard Class | Hazard Category |
|---|---|
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitizer | Category 1 |

**Hazard pictogram:**

**Signal word:** Danger

**Hazard statement(s):** H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

**Precautionary Statement(s):**

**Prevention:** P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves, eye protection, and face protection.

**Response:** P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.

**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
resins

**Type of preparation:** Silicone sealant

**Identity of ingredients:**

| Chemical ingredients | CAS-No. | Proportion |
|---|---|---|
| Butan-2-one O,O',O"-(vinylsilylidyne)trioxime | 2224-33-1 | 3- < 10 % |
| Butan-2-one O,O',O",O'"-silanetetrayltetraoxime | 34206-40-1 | < 1 % |
| non hazardous ingredients~ | | 60- < 100 % |

## 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. If symptoms persist, seek medical advice.

**First Aid facilities:** Eye wash
Normal washroom facilities

**Medical attention and special treatment:** Treat symptomatically.

## SECTION 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Carbon dioxide, foam, powder
Water spray or fog.

**Improper extinguishing media:** High pressure waterjet

| | |
|---|---|
| **Decomposition products in case of fire:** | Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.<br>Oxides of carbon.<br>Oxides of silicon. |
| **Special protective equipment for fire-fighters:** | 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.<br>Collect contaminated fire fighting water separately. It must not enter drains. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| **Personal precautions:** | Use personal protective equipment as described in Section 8.<br>Avoid contact with skin and eyes. |
| **Environmental precautions:** | Do not empty into drains / surface water / ground water. |
| **Clean-up methods:** | Absorb spill with inert material. Shovel material into appropriate container for disposal.<br>Dispose of contaminated material as waste according to Section 13. |

## SECTION 7. HANDLING AND STORAGE

| | |
|---|---|
| **Precautions for safe handling:** | Avoid skin and eye contact.<br>Refer to Section 8.<br>Ensure that workrooms are adequately ventilated. |
| **Conditions for safe storage:** | Suitable material for containers: original container.<br>Store in a cool, dry, well-ventilated area.<br>Keep away from heat and direct sunlight. |

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Workplace exposure standards:**

None

**Biological Exposure Indices:**
None

| | |
|---|---|
| **Engineering controls:** | Ensure good ventilation/suction at the workplace. |
| **Eye protection:** | Wear chemical goggles and face shield. |
| **Skin protection:** | Use of an impervious apron is recommended.<br>Suitable protective gloves.<br>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:** | Black<br>Paste |
| **Odor:** | Mild |
| **pH:** | Not applicable |
| **Melting point / freezing point:** | Not available. |
| **Specific gravity:** | 1.3 |
| **Flash point:**<br>(Tagliabue closed cup) | > 93 °C (> 199.4 °F) |
| **Vapor pressure:**<br>(; 20 °C (68 °F)) | < 5 mm hg |
| **Density:** | 1.05 g/cm3 |
| **Solubility in water:** | Polymerises in presence of water. |
| **VOC content:**<br>(2010/75/EC) | < 5.00 % |

## SECTION 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of temperature and pressure.

**Conditions to avoid:** Exposure to air or moisture over prolonged periods.

**Incompatible materials:** Polymerises in presence of water.
Reaction with acids: production of heat and carbon dioxide.

**Hazardous decomposition products:** Methyl ethyl ketoxime formed during cure.

Methanol is liberated slowly upon exposure to moisture.

## SECTION 11 TOXICOLOGICAL INFORMATION

**Health Effects:**

**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

**Skin:** Mild skin irritation.
Symptoms may include redness, edema, drying, defatting and cracking of the skin.
May cause an allergic skin reaction.

**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:** May cause irritation to nose and throat.

**Acute toxicity:**

| Hazardous components<br>CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Butan-2-one O,O',O''-(vinylsilylidyne)trioxime<br>2224-33-1 | LD50<br>LD50 | > 2,000 mg/kg<br>> 2,009 mg/kg | oral<br>dermal | | rat<br>rat | OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)<br>OECD Guideline 402 (Acute Dermal Toxicity) |
| Butan-2-one O,O',O'',O'''-silanetetrayltetraoxime<br>34206-40-1 | LD50<br>LD50 | 2,463 mg/kg<br>> 2,000 mg/kg | oral<br>dermal | | rat<br>rat | OECD Guideline 401 (Acute Oral Toxicity)<br>OECD Guideline 402 (Acute Dermal Toxicity) |

**Serious eye damage/irritation:**

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| Butan-2-one O,O',O'',O'''-silanetetrayltetraoxime 34206-40-1 | irritating | 1 h | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

| Hazardous components CAS-No. | Result | Test type | Species | Method |
|---|---|---|---|---|
| Butan-2-one O,O',O''-(vinylsilylidyne)trioxime 2224-33-1 | Sensitizing | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Butan-2-one O,O',O'',O'''-silanetetrayltetraoxime 34206-40-1 | sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

**Germ cell mutagenicity:**

| Hazardous components CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---|---|---|---|---|---|
| Butan-2-one O,O',O''-(vinylsilylidyne)trioxime 2224-33-1 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Butan-2-one O,O',O''-(vinylsilylidyne)trioxime 2224-33-1 | negative | intraperitoneal | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |

**Repeated dose toxicity:**

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|---|---|---|---|---|
| Butan-2-one O,O',O''-(vinylsilylidyne)trioxime 2224-33-1 | NOAEL=10 mg/kg | oral: gavage | | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Butan-2-one O,O',O'',O'''-silanetetrayltetraoxime 34206-40-1 | NOAEL=25 mg/kg | oral: drinking water | 90 ddaily: ad libitum | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

## SECTION 12. ECOLOGICAL INFORMATION

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

**Toxicity:**

| Hazardous components CAS-No. | Value type | Value | Acute Toxicity Study | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Butan-2-one O,O',O''-(vinylsilylidyne)trioxime 2224-33-1 | LC50 | > 560 mg/l | Fish | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Butan-2-one O,O',O''-(vinylsilylidyne)trioxime 2224-33-1 | NOEC | 50 mg/l | Fish | 14 d | Oryzias latipes | OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) |
| Butan-2-one O,O',O''-(vinylsilylidyne)trioxime 2224-33-1 | EC50 | 201 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Butan-2-one O,O',O''-(vinylsilylidyne)trioxime 2224-33-1 | EC50 | 94 mg/l | Algae | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Butan-2-one O,O',O''-(vinylsilylidyne)trioxime 2224-33-1 | NOEC | 30 mg/l | Algae | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Butan-2-one O,O',O'',O'''-silanetetrayltetraoxime 34206-40-1 | LC50 | 843 mg/l | Fish | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Butan-2-one O,O',O'',O'''-silanetetrayltetraoxime 34206-40-1 | NOEC | 50 mg/l | Fish | 14 d | Oryzias latipes | OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) |
| Butan-2-one O,O',O'',O'''-silanetetrayltetraoxime 34206-40-1 | EC50 | 201 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Butan-2-one O,O',O'',O'''-silanetetrayltetraoxime 34206-40-1 | EC50 | 16 mg/l | Algae | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Butan-2-one O,O',O'',O'''-silanetetrayltetraoxime 34206-40-1 | NOEC | 2.6 mg/l | Algae | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |

**Persistence and degradability:**

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|---|---|---|---|---|
| Butan-2-one O,O',O''-(vinylsilylidyne)trioxime 2224-33-1 | not readily biodegradable. | aerobic | 26 % | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| Butan-2-one O,O',O'',O'''-silanetetrayltetraoxime 34206-40-1 | not readily biodegradable. | aerobic | 28 % | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |

## SECTION 13. DISPOSAL CONSIDERATIONS

**Waste disposal of product:** Collection and delivery to recycling enterprise or other registered elimination institution. Dispose of as hazardous waste in compliance with local and national regulations.

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

## SECTION 14. TRANSPORT INFORMATION

**Dangerous Goods information:**

**Land Transport:** Not Classified as Dangerous Goods according to NZS 5433: 2012 and the Land Transport Rule: Dangerous Goods 2005.

**Marine transport IMDG:**
Not dangerous goods

**Air transport IATA:**
Not dangerous goods

## `SECTION 15. REGULATORY INFORMATION

**HSNO Approval Number:** Group standard HSR002670

**NZIoC:** Compliant for NZIOC

## SECTION 16. OTHER INFORMATION

**Abbreviations/acronyms:**
HSNO - Hazardous Substances and New Organisms
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

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