# Safety Data Sheet



LOCTITE® 565™ PST® PIPE SEALANT THREAD SEALANT

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V001.2
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## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name:** LOCTITE® 565™ PST® PIPE SEALANT THREAD SEALANT

**Intended use:** Anaerobic Sealant

**Supplier:**

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**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:**

| Hazard Class | Hazard Category | Target organ |
|---|---|---|
| Serious eye irritation | Category 2A | |
| Target Organ Systemic Toxicant - Single exposure | Category 3 | respiratory tract irritation |
| Acute hazards to the aquatic environment | Category 3 | |

**Hazard pictogram:**

**Signal word:** Warning

**Hazard statement(s):** H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H402 Harmful to aquatic life.

**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.
P273 Avoid release to the environment.
P280 Wear eye protection/face protection.

**Response:** 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.
P337+P313 If eye irritation persists: Get medical advice/attention.

**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
**Type of preparation:** Sealant

**Identity of ingredients:**

| Chemical ingredients | CAS-No. | Proportion |
|---|---|---|
| Titanium dioxide | 13463-67-7 | 1- < 10 % |
| α, α-dimethylbenzyl hydroperoxide | 80-15-9 | 1- < 3 % |
| N,N-Diethyl-p-toluidine | 613-48-9 | 0.1- < 1 % |
| non hazardous ingredients~ | | 60- <= 100 % |

## SECTION 4 FIRST AID MEASURES

**Ingestion:** Do not induce vomiting.
Seek medical advice.

**Skin:** Wash skin with water
In case of adverse health effects seek medical advice.

**Eyes:** Flush eyes with plenty of water for at least 5 minutes. If irritation persists seek medical attention.

**Inhalation:** Move to fresh air, consult doctor if complaint persists.

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

## SECTION 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Foam, extinguishing powder, carbon dioxide.

**Improper extinguishing media:** None known

**Combustion behaviour:** Non flammable product (flash point is greater than 100°C (CC))

**Decomposition products in case of fire:** Oxides of carbon, oxides of nitrogen, irritating organic vapors.

**Particular danger in case of fire:** None

**Special protective equipment for fire-fighters:** Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Ensure adequate ventilation.

**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.

## SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling:** Use only in well-ventilated areas.
Gloves and safety glasses should be worn
Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

**Conditions for safe storage:** Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.

## 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) |
|---|---|---|---|---|---|---|
| Titanium dioxide 13463-67-7 | | | 10 | - | - | - |

**Biological Exposure Indices:**
None

**Engineering controls:** Ensure good ventilation/extraction.

**Eye protection:** Safety goggles or safety glasses with side shields.

**Skin protection:** Use impermeable gloves and protective clothing as necessary to prevent skin contact.

Neoprene, Butyl-rubber, or nitrile-rubber gloves.

**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:** | white<br>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:** | > 100.00 °C (> 212 °F) |
| **Vapor pressure:** | < 5 mm hg |
| (; 27 °C (80.6 °F); 20 °C (68 °F)) | < 0.13 mbar |
| **Vapor density:** | > 1 |
| **Density:** | 1.1 g/cm3 |
| **Solubility in water:** | Insoluble |
| **Viscosity (dynamic):** | 55,000 - 120,000 mPa.s(; 25 °C (77 °F); Method: ;; LCT STM 10; Viscosity Brookfield) |

## SECTION 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **Conditions to avoid:** | See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10). |
| **Incompatible materials:** | Strong oxidizing agents. |
| **Hazardous decomposition products:** | In case of fire toxic gases can be released.<br>Oxides of carbon. |

## SECTION 11 TOXICOLOGICAL INFORMATION

**Health Effects:**

**Ingestion:** May cause irritation of the stomach
**Skin:** May cause mild skin irritation.
**Eyes:** Causes serious eye irritation.
Symptoms may include severe irritation, pain, tearing, blurred vision.
**Inhalation:** May cause respiratory tract irritation.

**Acute toxicity:**

| Hazardous components<br>CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Titanium dioxide<br>13463-67-7 | LD50<br>LC50<br>LD50 | > 5,000 mg/kg<br>> 6.82 mg/l<br>> 10,000 mg/kg | oral<br>inhalation<br>dermal | 4 h | rat<br>rat<br>rabbit | OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)<br>not specified<br>not specified |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9 | LD50<br>LC50<br>Acute toxicity estimate (ATE) | 382 mg/kg<br>1.370 mg/l<br>1,100 mg/kg | oral<br>inhalation<br>dermal | 4 h | rat<br>rat | other guideline:<br>not specified<br>Expert judgement |
| N,N-Diethyl-p-toluidine<br>613-48-9 | Acute toxicity estimate (ATE)<br>Acute toxicity estimate (ATE)<br>Acute toxicity estimate (ATE) | 100 mg/kg<br>3 mg/l<br>300 mg/kg | oral<br>inhalation<br>dermal | | | Expert judgement<br>Expert judgement<br>Expert judgement |

**Skin corrosion/irritation:**

| Hazardous components<br>CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| Titanium dioxide<br>13463-67-7 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9 | corrosive | | rabbit | Draize Test |
| N,N-Diethyl-p-toluidine<br>613-48-9 | irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

| Hazardous components<br>CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| Titanium dioxide<br>13463-67-7 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

| Hazardous components<br>CAS-No. | Result | Test type | Species | Method |
|---|---|---|---|---|
| Titanium dioxide<br>13463-67-7 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Titanium dioxide<br>13463-67-7 | not sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

**Germ cell mutagenicity:**

| Hazardous components<br>CAS-No. | Result | Type of study /<br>Route of administration | Metabolic activation /<br>Exposure time | Species | Method |
|---|---|---|---|---|---|
| Titanium dioxide<br>13463-67-7 | negative<br>negative<br>negative<br>negative | bacterial reverse mutation assay (e.g Ames test)<br>in vitro mammalian chromosome aberration test<br>mammalian cell gene mutation assay<br>in vitro mammalian cell micronucleus test | with and without<br>with and without<br>with and without<br>without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay)<br>OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)<br>OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)<br>equivalent or similar to OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) |
| Titanium dioxide<br>13463-67-7 | negative | oral: gavage | | rat | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9 | positive | bacterial reverse mutation assay (e.g Ames test) | without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9 | negative | dermal | | mouse | not specified |

**Repeated dose toxicity:**

| Hazardous components<br>CAS-No. | Result | Route of application | Exposure time /<br>Frequency of treatment | Species | Method |
|---|---|---|---|---|---|
| Titanium dioxide<br>13463-67-7 | NOAEL=> 1,000 mg/kg | oral: gavage | 92 ddaily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9 | | inhalation: aerosol | 6 h/d5 d/w | rat | not specified |

## SECTION 12. ECOLOGICAL INFORMATION

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

**Ecotoxicity:** H402 Harmful to aquatic life.

**Toxicity:**

| Hazardous components CAS-No. | Value type | Value | Acute Toxicity Study | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Titanium dioxide 13463-67-7 | LC50 | Toxicity > Water solubility | Fish | 48 h | Leuciscus idus | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Titanium dioxide 13463-67-7 | EC50 | Toxicity > Water solubility | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Titanium dioxide 13463-67-7 | EC50 | Toxicity > Water solubility | Algae | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Titanium dioxide 13463-67-7 | NOEC | Toxicity > Water solubility | Algae | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Titanium dioxide 13463-67-7 | EC0 | Toxicity > Water solubility | Bacteria | 24 h | Pseudomonas fluorescens | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | LC50 | 3.9 mg/l | Fish | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | EC50 | 18.84 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | EC50 | 3.1 mg/l | Algae | 72 h | Desmodesmus subspicatus (reported as Scenedesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | NOEC | 1 mg/l | Algae | 72 h | Desmodesmus subspicatus (reported as Scenedesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | EC10 | 70 mg/l | Bacteria | 30 min | not specified | not specified |
| N,N-Diethyl-p-toluidine 613-48-9 | LC50 | 78.62 mg/l | Fish | 96 h | Danio rerio | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| N,N-Diethyl-p-toluidine 613-48-9 | EC50 | 10.34 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| N,N-Diethyl-p-toluidine 613-48-9 | EC50 | 23.69 mg/l | Algae | 72 h | Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |

**Persistence and degradability:**

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|---|---|---|---|---|
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | not readily biodegradable. | aerobic | 3 % | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| N,N-Diethyl-p-toluidine 613-48-9 | not readily biodegradable. | not specified | 1 % | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |

**Bioaccumulative potential / Mobility in soil:**

| Hazardous components CAS-No. | LogPow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method |
|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | | 9.1 | | calculation | | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | 1.6 | | | | 25 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| N,N-Diethyl-p-toluidine 613-48-9 | 3.7 | | | | | QSAR (Quantitative Structure Activity Relationship) |

## SECTION 13. DISPOSAL CONSIDERATIONS

**Waste disposal of product:** Collection and delivery to recycling enterprise or other registered elimination institution.

**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 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:** HSR002670

**NZIoC:** Compliant for NZIoC

## SECTION 16. OTHER INFORMATION

**Abbreviations/acronyms:** IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

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**Date of previous issue:** 24.01.2020

**Disclaimer:**

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