



## Safety Data Sheet

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LOCTITE 5770 HIGH TEMPERATURE THREAD SEALAN  
known as LOCTITE® 5770™ THREAD SEALANT

SDS No. : 292261  
V001.2

Revision: 20.03.2024  
printing date: 17.12.2025

### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name:** LOCTITE 5770 HIGH TEMPERATURE THREAD SEALAN known as LOCTITE® 5770™ THREAD SEALANT

**Intended use:** Anaerobic Sealant

**Supplier:**  
Henkel New Zealand Ltd  
2 Allens Rd  
East Tamaki  
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

Not 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:

No classification required.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

**General chemical description:** Mixture

**Type of preparation:** Anaerobic thread sealant

#### Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Calcium fluoride	7789-75-5	20- < 30 %
Ethene, homopolymer	9002-88-4	20- < 30 %
Silica, amorphous, fumed, cryst.-free	112945-52-5	1- < 10 %
α, α-dimethylbenzyl hydroperoxide	80-15-9	0.1- < 1 %
N,N-Diethyl-p-toluidine	613-48-9	0.1- < 1 %
non hazardous ingredients~		30- <= 60 %

## SECTION 4 FIRST AID MEASURES

<b>Ingestion:</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Skin:</b>	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Get medical attention. Wash clothing before reuse.
<b>Eyes:</b>	Check for and remove any contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
<b>First Aid facilities:</b>	Eye wash Normal washroom facilities
<b>Medical attention and special treatment:</b>	Treat symptomatically and supportively.

## SECTION 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Decomposition products in case of fire:</b>	Oxides of carbon. Irritating organic vapours.
<b>Special protective equipment for fire-fighters:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Environmental precautions:</b>	Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

## SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling:** Keep container closed.  
Use only with adequate ventilation.  
Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.  
Refer to Section 8.

**Conditions for safe storage:** Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

**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)
FLUORIDES, AS F 7789-75-5			2.5	-	-	-
FLUORIDES, AS F			2.5	-	-	-
PARTICULATES NOT OTHERWISE CLASSIFIED, RESPIRABLE DUST 9002-88-4	Respirable dust.		3	-	-	-
PARTICULATES NOT OTHERWISE CLASSIFIED, INHALABLE DUST	Inhalable dust.		10	-	-	-
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	-	-	-

**Biological Exposure Indices:**

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Calcium fluoride 7789-75-5 [Fluorides]	Fluoride	Urine	Sampling time: End of shift.	3 mg/l	NZ BEI	The BEI is not applicable to non-metal fluorides and organic fluoride-containing compounds. As dietary and environmental factors can vary the fluoride body concentrations, repeated measurements are necessary. Biological levels of fluorides are indicators	
Calcium fluoride 7789-75-5 [Fluorides]	Fluoride	Urine	Sampling time: Prior to shift.	2 mg/l	NZ BEI	The BEI is not applicable to non-metal fluorides and organic fluoride-containing compounds. As dietary and environment	

						al factors can vary the fluoride body concentrations, repeated measurements are necessary. Biological levels of fluorides are indicators	
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Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Calcium fluoride 7789-75-5 [Inorganic fluorine compounds (fluorides)]	Fluoride	Urine	Sampling time: End of shift.	4.0 mg/l	DE BGW		

**Engineering controls:** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

**Eye protection:** Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.

**Skin protection:** Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.  
Butyl rubber gloves.  
Natural rubber gloves.  
Neoprene 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

<b>Appearance:</b>	Off white paste
<b>Odor:</b>	mild
<b>Specific gravity:</b>	1.2717
<b>Flash point:</b>	Does not flash.
<b>Vapor pressure:</b> (; 27 °C (80.6 °F))	< 5 mm hg
<b>Density:</b>	1.27 g/cm <sup>3</sup>
<b>Solubility in water:</b>	Slight

## SECTION 10. STABILITY AND REACTIVITY

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

**Conditions to avoid:** Store away from incompatible materials.

**Incompatible materials:** Oxidizers.

**Hazardous decomposition products:** Oxides of carbon.  
Irritating organic vapours.

**Hazardous polymerization:** Will not occur.

#### SECTION 11 TOXICOLOGICAL INFORMATION

**Health Effects:**

<b>Ingestion:</b>	May cause gastrointestinal tract irritation if swallowed.
<b>Skin:</b>	May cause mild skin irritation.
<b>Eyes:</b>	May cause mild irritation
<b>Inhalation:</b>	Inhalation of vapors or mists of the product may be irritating to the respiratory system.
<b>Target organ(s):</b>	Respiratory
<b>Aggravated med. condition:</b>	Eye, skin, and respiratory disorders.

**Acute toxicity:**

<b>Hazardous components CAS-No.</b>	<b>Value type</b>	<b>Value</b>	<b>Route of application</b>	<b>Exposure time</b>	<b>Species</b>	<b>Method</b>
Calcium fluoride 7789-75-5	LD50 LC50 LD50	> 2,000 mg/kg > 5.07 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat rat rat	OECD Guideline 423 (Acute Oral toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) EPA OPP 81-2 (Acute Dermal Toxicity)
Ethene, homopolymer 9002-88-4	Acute toxicity estimate (ATE) Acute toxicity estimate (ATE) Acute toxicity estimate (ATE)	> 5,000 mg/kg > 5 mg/l > 5,000 mg/kg	oral inhalation dermal	4 h		Expert judgement Expert judgement Expert judgement
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)
$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	LD50 LC50 Acute toxicity estimate (ATE)	382 mg/kg 1.370 mg/l 1,100 mg/kg	oral inhalation dermal	4 h	rat rat	other guideline: not specified Expert judgement
N,N-Diethyl-p-toluidine 613-48-9	Acute toxicity estimate (ATE) Acute toxicity estimate (ATE) Acute toxicity estimate (ATE)	100 mg/kg 3 mg/l 300 mg/kg	oral inhalation dermal			Expert judgement Expert judgement Expert judgement

**Skin corrosion/irritation:**

<b>Hazardous components CAS-No.</b>	<b>Result</b>	<b>Exposure time</b>	<b>Species</b>	<b>Method</b>
Calcium fluoride 7789-75-5	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Silica, amorphous, fumed, cryst.-free 112945-52-5	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide 80-15-9	corrosive		rabbit	Draize Test
N,N-Diethyl-p-toluidine 613-48-9	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Calcium fluoride 7789-75-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Ethene, homopolymer 9002-88-4	not irritating	24 h	rabbit	FDA Guideline
Silica, amorphous, fumed, cryst.-free 112945-52-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

Hazardous components CAS-No.	Result	Test type	Species	Method
Calcium fluoride 7789-75-5	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Ethene, homopolymer 9002-88-4	not 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
Calcium fluoride 7789-75-5	negative negative negative	in vitro mammalian chromosome aberration test bacterial reverse mutation assay (e.g Ames test)	with and without with and without with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Ethene, homopolymer 9002-88-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
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
<i>α, α-dimethylbenzyl hydroperoxide</i> 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
<i>α, α-dimethylbenzyl hydroperoxide</i> 80-15-9	negative	dermal		mouse	not specified

**Repeated dose toxicity:**

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Calcium fluoride 7789-75-5		inhalation: aerosol	28 d/6 hours/day, 5 days/week	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
$\alpha, \alpha$ -dimethylbenzyl hydroperoxide 80-15-9		inhalation: aerosol	6 h/d/5 d/w	rat	not specified

**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
Calcium fluoride 7789-75-5	LC50	104.7 mg/l	Fish	96 h	Oncorhynchus mykiss	other guideline:
Calcium fluoride 7789-75-5	NOEC	7.43 mg/l	Fish	21 d	Oncorhynchus mykiss	other guideline:
Calcium fluoride 7789-75-5	EC50	199 mg/l	Daphnia	48 h	Daphnia magna	other guideline:
Calcium fluoride 7789-75-5	EC10	280 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Calcium fluoride 7789-75-5	EC50	850 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Calcium fluoride 7789-75-5	EC0	231 mg/l	Bacteria	16 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Ethene, homopolymer 9002-88-4	LC50	> 100 mg/l	Fish	96 h		
Ethene, homopolymer 9002-88-4	EC0	> 1,000 mg/l	Bacteria	3 h	not specified	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Silica, amorphous, fumed, cryst.-free 112945-52-5	LC50	> 10,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
$\alpha, \alpha$ -dimethylbenzyl hydroperoxide 80-15-9	LC50	3.9 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
$\alpha, \alpha$ -dimethylbenzyl hydroperoxide 80-15-9	EC50	18.84 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
$\alpha, \alpha$ -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)
$\alpha, \alpha$ -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)
$\alpha, \alpha$ -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	7.42 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition 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
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Ethene, homopolymer 9002-88-4	not readily biodegradable.	aerobic	1 %	ISO 10708 (BODIS-Test)
$\alpha, \alpha$ -dimethylbenzyl hydroperoxide 80-15-9	not readily biodegradable.	aerobic	3 %	OECD Guideline 301 B (Ready Biodegradability: CO <sub>2</sub> 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
$\alpha, \alpha$ -dimethylbenzyl hydroperoxide 80-15-9		9.1		calculation		OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
$\alpha, \alpha$ -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:** Do not empty into drains / surface water / ground water.  
Dispose of as hazardous waste in compliance with local and national regulations.

**Disposal for uncleaned package:** After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

**SECTION 14. TRANSPORT INFORMATION**

**Marine transport IMDG:**  
Not dangerous goods

**Air transport IATA:**  
Not dangerous goods

**SECTION 15. REGULATORY INFORMATION**

**New Zealand regulatory information:**  
Not classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

**HSNO Approval Number:** Group standard not applicable

**NZIoC:**

All components are listed or are exempt from listing on the New Zealand Inventory of Chemicals (NZIoC)

**SECTION 16. OTHER INFORMATION**

<b>Abbreviations/acronyms:</b>	STEL - Short term exposure limit TWA - Time weighted average HSNO - Hazardous Substances and New Organisms IMDG: International Maritime Dangerous Goods code IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
<b>Reason for issue:</b>	Reviewed SDS. Reissued with new date. involved chapters: 1-16
<b>Date of previous issue:</b>	26.05.2020
<b>Disclaimer:</b>	<p>The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel New Zealand Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel New Zealand Limited concerning the properties of the material.</p> <p>The information contained in this Safety Data Sheet is offered in good faith and has been developed from what is believed to be accurate and reliable sources. The information is offered without warranty, representation, inducement or licence and Henkel New Zealand Limited assumes no legal responsibility for reliance upon same. Henkel New Zealand Limited disclaims any liability for loss, injury or damage incurred in connection with the use of the material or its associated Safety Data Sheet.</p> <p>This information is not to be construed as a representation that the material is suitable for any particular purpose or use except those conditions and warranties implied by Government statutes. Customers are encouraged to make their own enquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use.</p> <p>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.</p>