

LOCTITE LB 771 known as LOCTITE NICKEL ANTI-SEIZE 771

SDS No. : 319450

V001.6

Date of issue: 12.05.2022

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

**Product name:** LOCTITE LB 771 known as LOCTITE NICKEL ANTI-SEIZE 771

**Intended use:** Lubricant

**Supplier:**

Henkel Australia Pty Ltd  
135-141 Canterbury Road  
Kilsyth, Victoria, 3137  
Australia

Phone: +61 (3) 9724 6444

**Emergency information:** 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

## Section 2. Hazards identification

**Classification of the substance or mixture**

Hazardous according to the criteria of Safe Work Australia.

**GHS Classification:**

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

**Hazard pictogram:**



**Signal word:**

Danger

<b>Hazard statement(s):</b>	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H351 Suspected of causing cancer. H372 Causes damage to organs through prolonged or repeated exposure. H401 Toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.
<b>Precautionary Statement(s): Prevention:</b>	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist/vapours. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. 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. P405 Store locked up.
<b>Response:</b>	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.
<b>Storage:</b>	
<b>Disposal:</b>	

**Dangerous Goods information:**

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

**Section 3. Composition / information on ingredients**

**General chemical description** mixture

**Identity of Ingredients**

Chemical ingredients	CAS-No.	Proportion
Nickel	7440-02-0	10- < 30 %
Graphite	7782-42-5	< 10 %
Mineral oil~		1- < 10 %
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	1- < 3 %
aluminium powder (stabilised)	7429-90-5	< 10 %

**Section 4. First aid measures**

<b>Ingestion:</b>	Rinse mouth, do not induce vomiting, consult a doctor.
<b>Skin:</b>	Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.
<b>Eyes:</b>	Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.
<b>Inhalation:</b>	Move to fresh air.

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

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

### Section 5. Fire fighting measures

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

**Decomposition products in case of fire:** carbon oxides.  
Irritating organic vapours.

**Special protective equipment for fire-fighters:** Wear protective equipment.  
Wear self-contained breathing apparatus.

### Section 6. Accidental release measures

**Personal precautions:** Danger of slipping on spilled product.  
Wear impervious gloves and chemical splash goggles.

**Environmental precautions:** Do not empty into drains / surface water / ground water.

**Clean-up methods:** Soak up with inert absorbent.  
Dispose of contaminated material as waste according to Section 13.

### Section 7. Handling and storage

**Precautions for safe handling:** Ensure that workrooms are adequately ventilated.

**Conditions for safe storage:** Keep container tightly sealed.  
Store in a dry place.

### Section 8. Exposure controls / personal protection

#### National exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
NICKEL, POWDER 7440-02-0			1				
NICKEL, SOLUBLE COMPOUNDS (AS NI) 7440-02-0			0.1				
NICKEL, METAL 7440-02-0			1				
GRAPHITE (ALL FORMS EXCEPT FIBRES) (RESPIRABLE DUST) (NATURAL & SYNTHETIC) 7782-42-5	Respirable dust.		3				
ALUMINIUM (METAL DUST) 7429-90-5	Dust.		10				

ALUMINIUM (WELDING FUMES) (AS AL) 7429-90-5	Fume.		5				
ALUMINIUM, PYRO POWDERS (AS AL) 7429-90-5			5				

<b>Engineering controls:</b>	Ensure good ventilation/extraction.
<b>Eye protection:</b>	Wear chemical goggles.
<b>Skin protection:</b>	Use of protective coveralls and long sleeves is recommended. Protective gloves made of rubber.
<b>Respiratory protection:</b>	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>	dark grey liquid
<b>Odor:</b>	Hydrocarbon-like
<b>Flash point:</b>	> 240 °C (> 464 °F)
<b>Density:</b>	1.1 g/cm <sup>3</sup>
<b>Solubility in water:</b>	Insoluble

## Section 10. Stability and reactivity

<b>Stability:</b>	Stable under normal conditions of temperature and pressure.
<b>Conditions to avoid:</b>	Avoid ignition sources where dust is produced.
<b>Incompatible materials:</b>	Strong oxidizing agents. Nickel powder can react explosively with substances such as ammonium nitrate, perchlorates, phosphorus, selenium, sulfur, etc...
<b>Hazardous decomposition products:</b>	In case of fire toxic gases can be released. Irritating organic vapours. Oxides of carbon.

## Section 11. Toxicological information

**Health Effects:****Ingestion:****Skin:****Eyes:****Inhalation:****Chronic effects:****Nickel****7440-02-0:**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

May cause skin sensitization.

May cause skin irritation.

May cause eye irritation.

Inhalation of dust generated by this material may cause respiratory tract irritation.

Skin damage and respiratory dysfunctions after sensitisation; contact dermatitis, contact urticaria, allergic rhinitis and allergic asthma; active pneumonia, hyperplasia of the macrophages, alveolar proteinosis, fibrosis, hyperplasia of the bronchial lymph nodes and atrophy of the olfactory epithelium; carcinogenic potential, the lungs and nose are the target organs of the carcinogenicity of nickel and nickel compounds. Soluble Ni is quickly resorbed in the respiratory tract, percutaneous resorption is regarded as negligible.

**Carcinogenicity:**

Suspected of causing cancer.

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Nickel 7440-02-0	LD50	> 9,000 mg/kg	oral		rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Graphite 7782-42-5	LD50 LC50	> 2,000 mg/kg	inhalation	4 h	rat rat	OECD Guideline 423 (Acute Oral toxicity) OECD Guideline 403 (Acute Inhalation Toxicity)
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 68649-42-3	LD50 LD50	2,230 mg/kg > 2,000 mg/kg	oral dermal		rat rat	not specified not specified
aluminium powder (stabilised) 7429-90-5	LD50 LC50	> 15,900 mg/kg > 5 mg/l	oral inhalation	4 h	rat rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) not specified

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Graphite 7782-42-5	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
aluminium powder (stabilised) 7429-90-5	not irritating	24 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Graphite 7782-42-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
aluminium powder (stabilised) 7429-90-5	not irritating		rabbit	FDA Guideline

**Respiratory or skin sensitization:**

Hazardous components CAS-No.	Result	Test type	Species	Method
Graphite 7782-42-5	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
aluminium powder (stabilised) 7429-90-5	not sensitising	Draize Test	guinea pig	Draize Test

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Graphite 7782-42-5	negative negative 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)
aluminium powder (stabilised) 7429-90-5	positive positive negative	in vitro mammalian cell micronucleus test in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	without without with and without		OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
aluminium powder (stabilised) 7429-90-5	negative ambiguous	oral: gavage oral: gavage		rat rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)

**Repeated dose toxicity:**

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Graphite 7782-42-5	NOAEL=ca. 813 mg/kg	oral: feed	daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

**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
Nickel 7440-02-0	LC50	Toxicity > Water solubility	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Nickel 7440-02-0	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Graphite 7782-42-5	LC50	> 10,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Graphite 7782-42-5	EC50	> 5,600 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Mineral oil~	LC50	> 100 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Mineral oil~	EC50	> 10,000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Mineral oil~	EC50	> 100 mg/l	Algae	72 h	Scenedesmus quadricauda	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 68649-42-3	LC50	> 1 - 10 mg/l	Fish	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 68649-42-3	EC50	> 1 - 10 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Mineral oil~	not readily biodegradable.	aerobic	31 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 68649-42-3	not readily biodegradable.	aerobic	5 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

**Section 13. Disposal considerations**

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

Recommended cleanser: Solvent naphtha

Disposal for uncleaned package: Dispose of in accordance with local and national regulations.

**Section 14. Transport information**

**Road and Rail Transport:**

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

**Marine transport IMDG:**

Not dangerous goods

**Marine transport IATA:**

Not dangerous goods

**Section 15. Regulatory information****SUSMP Poisons Schedule**

None

**Section 16. Other information****Abbreviations/acronyms:**

GHS: Globally Harmonized System  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IMDG: International Maritime Dangerous Goods code  
STEL - Short term exposure limit  
TWA - Time weighted average  
AIIC - Australian Inventory of Industrial Chemicals (AIIC)  
AICIS - Australian Industrial Chemicals Introduction Scheme

**Reason for issue:**

Reviewed MSDS. Reissued with new date. involved chapters: 1-16

**Date of previous issue:**

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