

# Safety Data Sheet

LOCTITE LB 771 known as LOCTITE NICKEL ANTI-SEIZE 771

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SDS No.: 319450 V001.6

Date of issue: 12.05.2022

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

LOCTITELB 771 known as LOCTITENICKEL ANTI-SEIZE 771 Product name:

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> Serious eye irritation Hazard Category Category 2A Skin sensitizer Category 1 Carcinogenicity Category 2 Target Organ Systemic Toxicant -Category 1 Repeated exposure Acute hazards to the aquatic Category 2

environment

Chronic hazards to the aquatic Category 3 environment

Hazard pictogram:

Signal word: Danger SDS No.: 319450 LOCTITE LB 771 known as LOCTITE NICKEL ANTI-SEIZE

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Hazard statement(s): 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.

Precautionary Statement(s):

P201 Obtain special instructions before use. Prevention:

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.

Storage: P405 Store locked up.

Disposal: P501 Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations.

#### Dangerous Goods information:

Response:

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

Rinse mouth, do not induce vomiting, consult a doctor. Ingestion:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated Skin:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if Eyes:

necessary

Inhalation: Move to fresh air.

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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

carbon oxides. Irritating organic vapours.

S pecial 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

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

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				

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

Ensure good ventilation/extraction. Engineering controls:

Eye protection: Wear chemical goggles.

Skin protection: Use of protective coveralls and long sleeves is recommended.

Protective gloves made of rubber.

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

dark grey liquid Appearance:

Odor: Hydrocarbon-like Flash point: > 240 °C (> 464 °F)

Density: 1.1 g/cm3 Solubility in water: Insoluble

### Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Avoid ignition sources where dust is produced.

Incompatible materials:

Strong oxidizing agents. Nickel powder can react explosively with substances such as ammonium nitrate,

perchloraes, phosphorus, selenium, sulfur, etc...

Hazardous decomposition

products:

In case of fire toxic gases can be released.

Irritating organic vapours. Oxides of carbon.

## Section 11. Toxicological information

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Health Effects:

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause skin sensitization. Ingestion:

Skin: May cause skin irritation. May cause eye irritation. Eves:

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

Chronic effects: 7440-02-0:

Nickel

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	LD50	> 2,000 mg/kg	oral	1	rat	OECD Guideline 423 (Acute
7782-42-5	LC50		inhalation	4 h	rat	Oral toxicity) OECD Guideline 403 (Acute Inhalation Toxicity)
Phosphorodithioic acid,	LD50	2,230 mg/kg	oral		rat	not specified
O,O-di-C1-14-alkyl	LD50	> 2,000 mg/kg		1	rat	not specified
esters, zinc salts 68649-42-3			dermal			
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:

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

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## Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Graphite 7782-42-5	not sensitising	Mouse local lymphnod e 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:

Haz ardous 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. mg/kg	813	oral: feed	daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test)

# Section 12. Ecological information

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

### Toxicity:

Haz ardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity Study	time		
Nickel	LC50	Toxicity>Water	Fish	96 h	Brachydanio rerio (newname:	OECD Guideline
7440-02-0		solubility			Danio rerio)	203 (Fish, Acute
Nickel	EC50	Toxicity>Water	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline
7440-02-0	2050	solubility	Dupinna	1011	Dupiniu mugitu	202 (Daphnia sp.
		ĺ				Acute
						Immobilisation
1	1 050			0.61		Test)
Graphite 7782-42-5	LC50	> 10,000 mg/l	Fish	96 h	Brachydanio rerio (newname: Danio rerio)	OECD Guideline 203 (Fish, Acute
7782-42-3					Danio rerio)	Toxicity Test)
Graphite	EC50	> 5,600 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline
7782-42-5			'			202 (Daphnia sp.
						Acute
						Immobilisation
   Mineral oil~	LC50	> 100 mg/l	Fish	96 h	Pimephales promelas	T est) OECD Guideline
Willicial oil	Leso	> 100 mg1	1 1311	JO 11	1 intepriates proficias	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
			"		1	201 (Alga, Growth
]	Ι.					Inhibition Test)
Phosphorodithioicacid, O,O-	LC50	> 1 - 10 mg/l	Fish	96 h	not specified	OECD Guideline
di-C1-14-alkyl esters, zinc salts						203 (Fish, Acute Toxicity Test)
68649-42-3						1 Oxicity 1 est)
Phosphorodithioicacid, O,O-	EC50	> 1 - 10 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
di-C1-14-alkyl esters, zinc			'		' '	202 (Daphnia sp.
salts						Acute
68649-42-3						Immobilisation
I	I	l	I	I	I	Test)

## Persistence and degradability:

Haz ardous 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

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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

Air transport IATA:

Not dangerous goods

#### Section 15. Regulatory information

S US MP Poisons S chedule 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: 18.05.2017

Disclaimer:

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