



## Safety Data Sheet

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LOCTITE LB 771 known as LOCTITE NICKEL ANTI-SEIZE 771

SDS No. : 319450

V001.2

Revision: 18.05.2017

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### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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

**Intended use:** Lubricant

**Supplier:**  
Henkel New Zealand Ltd.  
2 Allens Road  
Auckland, 2014  
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 according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Classified as Dangerous Goods according to NZS 5433: 2012 and the Land Transport Rule: Dangerous Goods 2005.

**HSNO Classification:**

6.4A Class 6 - Toxicity, Subclass 6.4 - Eye irritant, Hazard Classification A  
Class 6 - Toxicity, Subclass 6.5 - Sensitisation, Hazard Classification B  
Class 6 - Toxicity, Subclass 6.7 - Carcinogen, Hazard Classification B  
Class 6 - Toxicity, Subclass 6.9 - Target organ, Hazard Classification A  
Class 9 - Ecotoxicity, Subclass 9.1 - Aquatic, Hazard Classification B

**GHS Classification:**

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

**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. H411 Toxic to aquatic life with long lasting effects.
<b>Precautionary Statement(s):</b>	
<b>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 dust/fume/gas/mist/vapours/spray. 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 eye protection/face protection. P280 Wear protective gloves. P281 Use personal protective equipment as required.
<b>Response:</b>	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. P363 Wash contaminated clothing before reuse. P391 Collect spillage.
<b>Storage:</b>	P405 Store locked up.
<b>Disposal:</b>	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**Identity of ingredients:**

Chemical ingredients	CAS-No.	Proportion
Nickel	7440-02-0	10- < 30 %
Graphite	7782-42-5	< 10 %
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	< 2 %
Aluminium powder (stabilised)	7429-90-5	< 2 %
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5	0.1- <= 1 %
non hazardous ingredients~		60- < 100 %

**SECTION 4 FIRST AID MEASURES**

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<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.
<b>First Aid facilities:</b>	Eye wash Normal washroom facilities
<b>Medical attention and special treatment:</b>	Treat symptomatically.

### SECTION 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Foam, extinguishing powder, carbon dioxide.
<b>Decomposition products in case of fire::</b>	carbon oxides. Irritating organic vapours.
<b>Special protective equipment for fire-fighters:</b>	Wear protective equipment. Wear self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Danger of slipping on spilled product. Wear impervious gloves and chemical splash goggles.
<b>Environmental precautions:</b>	Do not empty into drains / surface water / ground water.
<b>Clean-up methods:</b>	Soak up with inert absorbent. Dispose of contaminated material as waste according to Section 13.

### SECTION 7. HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	Ensure that workrooms are adequately ventilated.
<b>Conditions for safe storage:</b>	Keep container tightly sealed. Store in a dry place.

**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)
NICKEL METAL 7440-02-0			1	-	-	-
GRAPHITE, ALL FORMS EXCEPT GRAPHITE FIBRES, RESPIRABLE DUST 7782-42-5	Respirable dust.		3	-	-	-
ALUMINIUM, AS AL, METAL DUST 7429-90-5	Dust.		10	-	-	-
ALUMINIUM, AS AL, PYRO POWDERS	Pyrophoric powder.		5	-	-	-
ALUMINIUM, AS AL, WELDING FUMES	Welding fume.		5	-	-	-
ALUMINIUM, AS AL, ALKYLS (NOT OTHERWISE CLASSIFIED)			2	-	-	-
ALUMINIUM, AS AL, SOLUBLE SALTS			5	-	-	-

**Engineering controls:**

Ensure good ventilation/extraction.

**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****Appearance:**dark grey  
liquid**Odor:**

Hydrocarbon-like

**Flash point:**

&gt; 240 °C (&gt; 464 °F)

**Density:**1.1 g/cm<sup>3</sup>**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, perchlorates, 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**

**Health Effects:**

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

**Skin:** May cause skin sensitization.  
May cause skin irritation.

**Eyes:** May cause eye irritation.

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

**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	not specified
Graphite 7782-42-5	LD50	> 2,000 mg/kg	oral		rat	OECD Guideline 423 (Acute Oral toxicity)
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 68649-42-3	LD50	> 2,000 mg/kg	oral		rat	
2-(2-Heptadec-8-enyl-2- imidazolin-1-yl)ethanol 95-38-5	LD50	1,265 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)

**SECTION 12. ECOLOGICAL INFORMATION**

**General ecological information:** Do not empty into drains / surface water / ground water., Toxic for aquatics organisms, May cause long-term adverse effects in the aquatic environment.

**Ecotoxicity:** Toxic to aquatic life with long lasting effects.

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Nickel 7440-02-0	LC50	> 100 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Nickel 7440-02-0	EC50	> 100 mg/l	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)
Phosphorodithioic acid, O,O- di-C1-14-alkyl esters, zinc salts 68649-42-3	LC50	> 1 - 10 mg/l	Fish			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		Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Aluminium powder (stabilised) 7429-90-5	NOEC	> 100 mg/l	Fish	96 h	Salmo trutta	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-(2-Heptadec-8-enyl-2- imidazolin-1-yl)ethanol 95-38-5	LC50	0.3 mg/l	Fish			OECD Guideline 203 (Fish, Acute Toxicity Test)
2-(2-Heptadec-8-enyl-2- imidazolin-1-yl)ethanol 95-38-5	EC50	0.37 mg/l	Daphnia		Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-(2-Heptadec-8-enyl-2- imidazolin-1-yl)ethanol 95-38-5	NOEC	0.011 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-(2-Heptadec-8-enyl-2- imidazolin-1-yl)ethanol 95-38-5	EC50	0.03 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-(2-Heptadec-8-enyl-2- imidazolin-1-yl)ethanol 95-38-5	EC 50	26 mg/l	Bacteria			OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
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Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 68649-42-3		aerobic	5 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
2-(2-Heptadec-8-enyl-2-imidazolyl)ethanol 95-38-5		aerobic	1 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
2-(2-Heptadec-8-enyl-2-imidazolyl)ethanol 95-38-5	7.51					not specified

**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**

**Land Transport:**

UN no.: 3082  
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imidazolinderivate)  
 Class or division: 9  
 Packing group: III

**Marine transport IMDG:**

UN no.: 3082  
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imidazolinderivate)  
 Class or division: 9  
 Packing group: III  
 EmS: F-A ,S-F  
 Seawater pollutant: Marine pollutant

**Air transport IATA:**

UN no.:	3082
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Imidazolinderivate)
Class or division:	9
Packing group:	III
Packing instructions (passenger)	964
Packing instructions (cargo)	964

**Further information for transport:**

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

**SECTION 15. REGULATORY INFORMATION**

**New Zealand regulatory information:**

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

**HSNO Approval Number:** HSR002607

**Site and Storage:** Refer to the site and storage requirements for this Group Standard.

**NZIoC:** Compliant for NZIOC

**SECTION 16. OTHER INFORMATION**

**Abbreviations/acronyms:** STEL - Short term exposure limit  
TWA - Time weighted average  
HSNO - Hazardous Substances and New Organisms

**Reason for issue:** Reviewed MSDS. Reissued with new date. involved chapters: 2,3,14,16

**Date of previous issue:** 21.05.2015

**Disclaimer:**



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