Safety Data Sheet

LOCTITE LB 771 known as LOCTITE NICKEL ANTI-SEIZE 771

SDS No. : 319450
V001.4
Date of issue: 24.03.2016

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:

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

Hazard pictogram:

Signal word: Danger

Hazard statement(s):
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H372+H330 Causes damage to organs through prolonged or repeated exposure if inhaled.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:
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.

Response:
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.

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.

Classification of material T - Toxic Xi - Irritant

Risk phrases:
R40 Limited evidence of a carcinogenic effect.
R43 May cause sensitisation by skin contact.
R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.

Safety phrases:
S9 Keep container in a well-ventilated place.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S24/25 Avoid contact with skin and eyes.
S36/37 Wear suitable protective clothing and gloves.

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).

Signal word:
HAZARDOUS

Section 3. Composition / information on ingredients

General chemical description: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Nickel	7440-02-0	10- < 20 %
Graphite	7782-42-5	< 10 %
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	< 5 %
Aluminium powder (stabilised)	7429-90-5	< 5 %
non hazardous ingredients~		60- < 100 %

Section 4. First aid measures

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

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

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

Inhalation: Move to fresh air.

First Aid facilities: Eye wash
Normal washroom facilities

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, METAL 7440-02-0			1	-	-	-	-
GRAPHITE, NATURAL AND SYNTHETIC (ALL FORMS EXCEPT FIBRES) (RESPIRABLE DUST) 7782-42-5	Respirable dust.		3	-	-	-	-
ALUMINIUM, PYRO POWDERS (AS AL) 7429-90-5	Pyrophoric powder.		5	-	-	-	-
ALUMINIUM (METAL DUST) 7429-90-5	Dust.		10	-	-	-	-
ALUMINIUM (WELDING FUMES) (AS AL) 7429-90-5	Welding fume.		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: > 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

Health Effects:

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

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

Eyes: May cause eye irritation.

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

Chronic effects:

Nickel 7440-02-0: 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.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
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	

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.

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)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
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)

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).

General information:
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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

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Disclaimer:

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