



## Safety Data Sheet

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LOCTITE LB 771 NICKEL GRADE ANTI-SEIZE known as  
Nickel Grade Anti-Seize

SDS No. : 153790

V001.9

Revision: 03.01.2018

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

**Product name:** LOCTITE LB 771 NICKEL GRADE ANTI-SEIZE known as Nickel Grade Anti-Seize

**Other means of identification:** LOCTITE LB 771 BO1LBEN

**Product code:** IDH135543

**Recommended use of the chemical and restrictions on use**

**Intended use:** Lubricant

**Identification of manufacturer, importer or distributor**

**Importer:** Henkel Singapore Pte Ltd 401 Commonwealth Drive, #03-01/02, Haw Par Technocentre, Singapore. 149598  
Phone : +65 62660100 Fax : +65 62661161

**E-mail address of person responsible for Safety Data Sheet:** ap-ua-psra.sea@henkel.com

**Emergency information:** FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

### Section 2. Hazards identification

**GHS Classification:**

<u>Hazard Class</u>	<u>Hazard Category</u>
Skin sensitizer	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity - repeated exposure	Category 1

**GHS label elements:**

**Hazard pictogram:**



**Signal word:**

Danger

**Hazard statement:** H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H372 Causes damage to organs through prolonged or repeated exposure.

**Precaution:**

**Prevention:** P201 Obtain special instructions before use.  
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.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** P302+P352 IF ON SKIN: Wash with plenty of water.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

**Disposal:** P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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

**Substance or Mixture:**  
Mixture

**Declaration of hazardous chemical:**

Hazard component CAS-No.	Content	GHS Classification
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	30- 60 %	
Nickel 7440-02-0	10- 30 %	Skin Sensitization 1 H317 Carcinogenicity 2 H351 Target Organ Systemic Toxicant - Repeated exposure 1 H372
Graphite 7782-42-5	1- 10 %	
Sulfonic acids, petroleum, sodium salts 68608-26-4	1- 10 %	Serious eye damage/eye irritation 2 H319
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO 64742-54-7	1- 10 %	Aspiration hazard 1 H304
Lard, oil, polymd., oxidized 68082-79-1	1- 10 %	Serious eye damage/eye irritation 2 H319

**Section 4. First aid measures**

**Inhalation:** Move to fresh air.  
Seek medical advice.

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<b>Skin contact:</b>	Rinse with running water and soap. Seek medical advice.
<b>Eye contact:</b>	Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.
<b>Ingestion:</b>	Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor. Seek medical advice.
<b>Indication of immediate medical attention and special treatment needed:</b>	See section: Description of first aid measures

### Section 5. Fire fighting measures

<b>Suitable extinguishing media:</b>	Foam, extinguishing powder, carbon dioxide. Fine water spray
<b>Specific hazards arising from the chemical:</b>	In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO <sub>2</sub> ) can be released. In case of fire, keep containers cool with water spray.
<b>Special protection equipment and precautions for firefighters:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
<b>Hazardous combustion products:</b>	Oxides of carbon.

### Section 6. Accidental release measures

<b>Personal precautions:</b>	Avoid skin and eye contact. Ensure adequate ventilation.
<b>Environmental precautions:</b>	Do not let product enter drains.
<b>Clean-up methods:</b>	For small spills wipe up with paper towel and place in container for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal.

### Section 7. Handling and storage

<b>Handling:</b>	Avoid skin and eye contact.
<b>Storage:</b>	Store in a cool, dry place. Keep container tightly sealed. Keep away from sources of ignition.

**Section 8. Exposure controls / personal protection**

**Components with specific control parameters for workplace:**

MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION 64742-52-5	<b>Value type</b>	Time Weighted Average (TWA):
	<b>mg/m<sup>3</sup></b>	5
	<b>Remarks</b>	ACGIH
OIL MIST, MINERAL 64742-52-5	<b>Value type</b>	Time Weighted Average (TWA):
	<b>mg/m<sup>3</sup></b>	5
	<b>Remarks</b>	SG PEL
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	<b>Value type</b>	Time Weighted Average (TWA):
	<b>mg/m<sup>3</sup></b>	5
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	<b>Value type</b>	Short Term Exposure Limit (STEL):
	<b>mg/m<sup>3</sup></b>	10
OIL MIST, MINERAL 64742-52-5	<b>Value type</b>	Short Term Exposure Limit (STEL):
	<b>mg/m<sup>3</sup></b>	10
	<b>Remarks</b>	SG PEL
NICKEL, ELEMENTAL, INHALABLE FRACTION 7440-02-0	<b>Value type</b>	Time Weighted Average (TWA):
	<b>mg/m<sup>3</sup></b>	1.5
	<b>Remarks</b>	ACGIH
NICKEL, METAL 7440-02-0	<b>Value type</b>	Time Weighted Average (TWA):
	<b>mg/m<sup>3</sup></b>	1
	<b>Remarks</b>	SG PEL
GRAPHITE (ALL FORMS EXCEPT GRAPHITE FIBERS), RESPIRABLE FRACTION 7782-42-5	<b>Value type</b>	Time Weighted Average (TWA):
	<b>mg/m<sup>3</sup></b>	2
	<b>Remarks</b>	ACGIH
GRAPHITE, RESPIRABLE DUST 7782-42-5	<b>Value type</b>	Time Weighted Average (TWA):
	<b>mg/m<sup>3</sup></b>	2
	<b>Remarks</b>	SG PEL
NUISANCE PARTICULATES 7782-42-5	<b>Value type</b>	Time Weighted Average (TWA):
	<b>mg/m<sup>3</sup></b>	10
	<b>Remarks</b>	SG PEL

**Respiratory protection:**

Do not inhale vapors and fumes.  
Use only in well-ventilated areas.  
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area  
Filter type: A (EN 14387)

**Hand protection:**

Chemical-resistant protective gloves (EN 374).  
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):  
nitrile rubber (NBR; >= 0.4 mm thickness)  
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):  
nitrile rubber (NBR; >= 0.4 mm thickness)  
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in

practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

<b>Eye protection:</b>	Wear protective glasses. Protective eye equipment should conform to EN166.
<b>Body protection:</b>	Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.
<b>Engineering controls:</b>	Ensure good ventilation/extraction.
<b>Hygienic measures:</b>	Good industrial hygiene practices should be observed. Do not eat, drink or smoke while working. Wash hands before work breaks and after finishing work.

## Section 9. Physical and chemical properties

<b>Appearance:</b>	grey paste
<b>Odor:</b>	characteristic
<b>Odor threshold (CA):</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point / freezing point:</b>	No data available.
<b>Specific gravity:</b>	1.1
<b>Boiling point:</b>	No data available.
<b>Flash point:</b>	> 93 °C (> 199.4 °F)
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Lower explosive limit:</b>	No data available.
<b>Upper explosive limit:</b>	No data available.
<b>Vapor pressure:</b> (; 26.6 °C (79.9 °F))	< 6 mbar
<b>Vapor density:</b>	No data available.
<b>Density:</b>	No data available.
<b>Solubility:</b>	No data available.
<b>Partition coefficient: n- octanol/water:</b>	No data available.
<b>Auto ignition:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>VOC content:</b> (2010/75/EC)	< 3 %

## Section 10. Stability and reactivity

<b>Reactivity/Incompatible materials:</b>	Strong oxidizing agents.
<b>Chemical stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	Stable under normal conditions of storage and use.
<b>Hazardous decomposition</b>	carbon oxides.

**products:****Section 11. Toxicological information****General toxicological information:**

Limited evidence of a carcinogenic effect

## Symptoms of Overexposure:

May cause sensitization by skin contact.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

**Acute oral toxicity:**

Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Nickel 7440-02-0	Value type	LD50
	Value	> 9,000 mg/kg
	Species	rat
	Method	not specified
Graphite 7782-42-5	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 423 (Acute Oral toxicity)

**Acute inhalative toxicity:**

Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	Value type	LC50
	Value	> 5.53 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)

**Acute dermal toxicity:**

Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)

**Skin corrosion/irritation:**

Graphite 7782-42-5	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

Graphite 7782-42-5	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

Graphite 7782-42-5	Result	not sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

**Germ cell mutagenicity:**

Graphite 7782-42-5	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Graphite 7782-42-5	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Graphite 7782-42-5	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

**Repeated dose toxicity:**

Graphite 7782-42-5	Result	NOAEL=813 mg/kg
	Route of application	oral: feed
	Exposure time / Frequency of treatment	daily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

**Section 12. Ecological information****Ecotoxicity:**

Do not empty into drains / surface water / ground water.

**Toxicity:**

Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	Value type	LC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	Value type	EC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	Value type	NOELR
	Value	100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Nickel 7440-02-0	Value type	LC50
	Value	> 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Brachydanio rerio (new name: Danio rerio)
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Nickel 7440-02-0	Value type	EC50
	Value	> 100 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Graphite 7782-42-5	Value type	LC50
	Value	> 10,000 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h

	Species	Brachydanio rerio (new name: Danio rerio)
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Graphite 7782-42-5	Value type	EC50
	Value	> 5,600 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	24 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Value type	LC50
	Value	> 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Value type	EC50
	Value	> 100 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Value type	ErC50
	Value	> 100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Value type	EC0
	Value	620 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	
	Method	not specified

**Persistence and degradability:**

Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	Result	
	Route of application	aerobic
	Degradability	6 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Sulfonic acids, petroleum, sodium salts 68608-26-4	Result	
	Route of application	aerobic
	Degradability	1 - 7 %
	Method	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
	Result	
	Route of application	aerobic
	Degradability	85.2 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)

**Section 13. Disposal considerations**

**Product**

**Method of disposal:** Dispose of in accordance with local and national regulations.

**Packaging**

**Disposal of uncleaned packages:** Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

**Section 14. Transport information**

**General information:**

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

**Section 15. Regulatory information**

**Regulatory Information:** Workplace Safety And Health Act (Chapter 354A) Workplace Safety And Health (Approved Codes of Practice) Notification 2013 SS586 Specification for Hazard Communication for hazardous chemicals and dangerous good Part 1,2,3

**Global inventory status:**

Regulatory list	Notification
TSCA	yes
DSL	yes
ENCS (JP)	yes
KECI (KR)	yes
IECSC	yes
NZIOC	yes

**Section 16. Other information**

**Disclaimer:** This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.