



## Safety Data Sheet

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LOCTITE LB 8504 SYNTHETIC PETROLEUM ANTI-SEIZE  
known as Loctite(R) Graphite-50 Synthet

SDS No. : 153756  
V001.4

Date of issue: 23.09.2021

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

**Product name:** LOCTITE LB 8504 SYNTHETIC PETROLEUM ANTI-SEIZE known as Loctite(R) Graphite-50 Synthet

**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**  
Not hazardous according to the criteria of Safe Work Australia.

**GHS Classification:**

No classification required.

**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  
petroleum

**Type of preparation:** Lubricant

**Identity of ingredients:**

Chemical ingredients	CAS-No.	Proportion
Graphite	7782-42-5	30- < 60 %
Petrolatum	8009-03-8	30- < 60 %
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO	64742-52-5	< 10 %
Distillates (petroleum), hydrotreated light naphthenic < 3% DMSO	64742-53-6	< 10 %
non hazardous ingredients~		<= 10 %

**Section 4. First aid measures**

<b>Ingestion:</b>	Get medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.
<b>Skin:</b>	After contact with the hot melt: cool with water, seek medical attention.
<b>Eyes:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Inhalation:</b>	Move to fresh air. If symptoms persist, seek medical advice.
<b>First Aid facilities:</b>	Eye wash and safety shower
<b>Medical attention and special treatment:</b>	Treat symptomatically and supportively.

**Section 5. Fire fighting measures**

<b>Suitable extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Decomposition products in case of fire:</b>	Oxides of carbon. Acrid smoke and fumes.
<b>Particular danger in case of fire:</b>	Closed containers may explode when exposed to extreme heat.
<b>Special protective equipment for fire-fighters:</b>	Oil will float on water and can spread fire. Water spray may be ineffective.

**Section 6. Accidental release measures**

<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	Scrape up as much material as possible. Clean residue with soap and water. Contaminated surfaces will be extremely slippery.

**Section 7. Handling and storage**

**Precautions for safe handling:** Keep container closed.  
Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

**Conditions for safe storage:** Store in a cool, well-ventilated 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)
GRAPHITE (ALL FORMS EXCEPT FIBRES) (RESPIRABLE DUST) (NATURAL & SYNTHETIC) 7782-42-5	Respirable dust.		3				
Oil mist, refined mineral 8009-03-8			5				
Oil mist, refined mineral 64742-52-5			5				
Oil mist, refined mineral 64742-53-6			5				

**Engineering controls:** Not normally needed.  
Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

**Eye protection:** Safety glasses with side-shields.  
Goggles.

**Skin protection:** Use impermeable gloves and protective clothing as necessary to prevent skin contact. Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

**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:** black  
paste  
**Odor:** mild, Petroleum  
**Specific gravity:** 1.2  
**Boiling point:** 343 °C (649.4 °F)  
**Flash point:** 236 °C (456.8 °F)  
(; HST-US D09F; Flash/Fire Point By Cleveland Open Cup)  
**Solubility in water:** Negligible

**Section 10. Stability and reactivity**

<b>Conditions to avoid:</b>	None known Stable under normal conditions of storage and use.
<b>Incompatible materials:</b>	Strong acids and strong bases. Oxidizing agents.
<b>Hazardous decomposition products:</b>	Oxides of carbon.
<b>Hazardous polymerization:</b>	Will not occur.

### Section 11. Toxicological information

**Health Effects:**

<b>Ingestion:</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause irritation of the stomach
<b>Skin:</b>	Prolonged or repeated contact may cause irritation. May cause mild skin irritation.
<b>Eyes:</b>	May cause mild irritation
<b>Inhalation:</b>	Graphite dust may be irritating Inhalation of vapors from heated material may cause irritation. Inhalation of mist or spray may cause irritation of the respiratory tract and nasal passages.

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Graphite 7782-42-5	LD50 LC50	> 2,000 mg/kg	oral inhalation	4 h	rat rat	OECD Guideline 423 (Acute Oral toxicity) OECD Guideline 403 (Acute Inhalation Toxicity)
Petrolatum 8009-03-8	LD50 LD50	> 5,000 mg/kg > 2,000 mg/kg	oral dermal		rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	LD50 LC50 LD50	> 5,000 mg/kg > 5.53 mg/l > 5,000 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Distillates (petroleum), hydrotreated light naphthenic < 3% DMSO 64742-53-6	LD50 LC50 LD50	> 5,000 mg/kg > 5.53 mg/l > 5,000 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

**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)
Petrolatum 8009-03-8	not irritating	4 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)
Petrolatum 8009-03-8	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**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)
Petrolatum 8009-03-8	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

**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)
Petrolatum 8009-03-8	negative negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Petrolatum 8009-03-8	negative	dermal		rat	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Distillates (petroleum), hydrotreated light naphthenic < 3% DMSO 64742-53-6	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian 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)
Petrolatum 8009-03-8	NOAEL=5,000 mg/kg	oral: feed	2 ycontinuous, ad libitum	rat	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

**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
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)
Petrolatum 8009-03-8	LC50	3,779 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Petrolatum 8009-03-8	EC50	1,425 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Petrolatum 8009-03-8	EC50	> 1,000 mg/l	Algae			OECD Guideline 201 (Alga, Growth Inhibition Test) not specified
Petrolatum 8009-03-8	EC0	1,000 mg/l	Bacteria	30 min		
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	LC50	> 1,000 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	EC50	> 1,000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	NOELR	100 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Distillates (petroleum), hydrotreated light naphthenic < 3% DMSO 64742-53-6	LL50	> 100 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Distillates (petroleum), hydrotreated light naphthenic < 3% DMSO 64742-53-6	EC50	> 1,000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Distillates (petroleum), hydrotreated light naphthenic < 3% DMSO 64742-53-6	NOELR	100 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Petrolatum 8009-03-8	not readily biodegradable.	aerobic	51 %	ISO 10708 (BODIS-Test)
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	not readily biodegradable.	aerobic	6 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

### Section 13. Disposal considerations

- Waste disposal of product:** Dispose of in accordance with local and national regulations.
- Disposal for uncleaned package:** Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

### 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

#### Air transport IATA:

Not dangerous goods

### Section 15. Regulatory information

**SUSMP Poisons Schedule** None

### Section 16. Other information

**Abbreviations/acronyms:** IMDG: International Maritime Dangerous Goods code  
ADGC - Australian Dangerous Goods Code  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
TWA - Time weighted average  
STEL - Short term exposure limit  
AIC - Australian Inventory of Industrial Chemicals (AIIC)  
AICIS - Australian Industrial Chemicals Introduction Scheme

**Reason for issue:** Reviewed SDS. Reissued with new date. involved chapters: 1 - 16

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**Disclaimer:**

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