



## Safety Data Sheet

LOCTITE LB 8151 AE 12FOEN

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SDS No. : 175601

V001.4

Date of issue: 30.03.2020

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

**Product name:** LOCTITE LB 8151 AE 12FOEN

**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>	<u>Hazard Category</u>	<u>Target organ</u>
Flammable aerosols	Category 1	
Skin irritation	Category 2	
Serious eye damage/eye irritation	Category 1	
Target Organ Systemic Toxicant - Single exposure	Category 3	Central nervous system
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>	H222 Extremely flammable aerosol. H315 Causes skin irritation. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.
<b>Precautionary Statement(s):</b>	
<b>Prevention:</b>	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves, eye protection, and face protection.
<b>Response:</b>	P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing. P391 Collect spillage.
<b>Storage:</b>	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
<b>Disposal:</b>	P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

**Dangerous Goods information:**

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
acetone	67-64-1	10- < 20 %
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO	64742-52-5	10- < 30 %
butane	106-97-8	< 10 %
Graphite	7782-42-5	< 10 %
Calcium oxide	1305-78-8	3- < 10 %
Distillates (petroleum), hydrotreated light naphthenic < 3% DMSO	64742-53-6	< 10 %
cyclohexane	110-82-7	<= 10 %
non hazardous ingredients~		10- <= 20 %

**Section 4. First aid measures**

<b>Ingestion:</b>	Do not induce vomiting. Have victim rinse mouth thoroughly with water. Seek medical advice.
<b>Skin:</b>	Remove contaminated clothing and footwear. Wash with soap and water. If symptoms develop and persist, get medical attention. Wash clothing before reuse.
<b>Eyes:</b>	Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.
<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of vapours. If adverse health effects develop seek medical attention.
<b>First Aid facilities:</b>	Eye wash Normal washroom facilities
<b>Medical attention and special treatment:</b>	Treat symptomatically and supportively.

### Section 5. Fire fighting measures

<b>Suitable extinguishing media:</b>	Water spray or fog. Carbon dioxide. Dry chemical.
<b>Decomposition products in case of fire:</b>	Thermal decomposition can lead to release of irritating gases and vapors. carbon monoxide Carbon dioxide.
<b>Particular danger in case of fire:</b>	WARNING FLAMMABLE! Contents under pressure. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. In case of fire, keep containers cool with water spray.
<b>Special protective equipment for fire-fighters:</b>	Use water spray to keep fire exposed containers cool and disperse vapors. Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
<b>Additional fire fighting advice:</b>	In case of fire, keep containers cool with water spray.

### Section 6. Accidental release measures

<b>Personal precautions:</b>	Avoid contact with skin and eyes. Avoid inhalation of vapor, fumes, dust and/or mist from the spilled material.
<b>Environmental precautions:</b>	Do not allow to enter in surface / ground water.
<b>Clean-up methods:</b>	Remove the absorbed material, and place in an appropriate chemical waste container for disposal. Ventilate area.

### Section 7. Handling and storage

- Precautions for safe handling:** Avoid breathing vapors or mists of this product.  
Avoid contact with eyes, skin and clothing.  
Keep away from heat, spark and flame.  
Vapors will accumulate readily and may ignite explosively.  
Ensure adequate ventilation.
- Conditions for safe storage:** Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.  
Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F).

### Section 8. Exposure controls / personal protection

**National exposure standards:**

- Engineering controls:** Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.
- Eye protection:** Safety goggles or safety glasses with side shields.
- Skin protection:** Chemical resistant, impermeable gloves.  
Wear suitable protective clothing.
- 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:** silver  
Aerosol, liquid
- Odor:** mild, Petroleum
- Specific gravity:** 0.77
- Boiling point:** 0 - 212 °F (-17.8 - 100 °C)
- Flash point:** < -18 °C (< 0.4 °F)  
(value for propellant).
- Flammability (solid, gas):** Extremely flammable aerosol.
- VOC content:** 42 % 323 g/l

### Section 10. Stability and reactivity

- Stability:** Stable under normal conditions of temperature and pressure.
- Conditions to avoid:** Keep away from heat, spark and flame.  
Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F).

<b>Incompatible materials:</b>	Oxidizing agents. Acids. Alkalis.
<b>Hazardous decomposition products:</b>	Thermal decomposition can lead to release of irritating gases and vapors.  carbon monoxide carbon dioxide
<b>Hazardous polymerization:</b>	Will not occur.

### Section 11. Toxicological information

**Health Effects:****Ingestion:**

Not expected under normal conditions of use.

**Skin:**

Causes skin irritation.

**Eyes:**

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Causes serious eye damage.

**Inhalation:**

Contact can cause moderate to severe irritation and possible injury to the eyes.

May cause irritation to nose and throat.

Vapours may cause drowsiness and dizziness.

Central nervous system depression, including dizziness, drowsiness, fatigue, nausea, headache, unconsciousness.

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
acetone 67-64-1	LD50 LC50 LD50	5,800 mg/kg 76 mg/l > 15,688 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	not specified not specified Draize Test
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)
butane 106-97-8	LC50	274200 ppm	inhalation	4 h	rat	not specified
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)
Calcium oxide 1305-78-8	LD50 LC50 LD50	> 2,000 mg/kg > 6.04 mg/l > 2,500 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class (ATC) Method) 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)
cyclohexane 110-82-7	LD50 LC50 LD50	> 5,000 mg/kg > 32.880 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
acetone 67-64-1	not irritating		guinea pig	not specified
Graphite 7782-42-5	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
cyclohexane 110-82-7	not irritating	4 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
acetone 67-64-1	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Graphite 7782-42-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Calcium oxide 1305-78-8	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
cyclohexane 110-82-7	slightly 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
acetone 67-64-1	not sensitising	Guinea pig maximisation test	guinea pig	not specified
Graphite 7782-42-5	not sensitising	Mouse local lymph node assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Calcium oxide 1305-78-8	not sensitising	Mouse local lymph node assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
cyclohexane 110-82-7	not sensitising	Buehler test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)

**Germ cell mutagenicity:**

<b>Hazardous components CAS-No.</b>	<b>Result</b>	<b>Type of study / Route of administration</b>	<b>Metabolic activation / Exposure time</b>	<b>Species</b>	<b>Method</b>
acetone 67-64-1	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 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)
acetone 67-64-1	negative	oral: drinking water		mouse	not specified
butane 106-97-8	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
butane 106-97-8	negative negative	inhalation: gas		Drosophila melanogaster rat	not specified OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
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)
Calcium oxide 1305-78-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
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)
cyclohexane 110-82-7	negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	with and without with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
cyclohexane 110-82-7	negative	inhalation: vapour		rat	equivalent or similar to 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
acetone 67-64-1	NOAEL=900 mg/kg	oral: drinking water	13 wdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
butane 106-97-8		inhalation: gas	28 d	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
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)
Calcium oxide 1305-78-8	NOAEL=1,000 mg/kg	oral: gavage	up to 48 consecutive daysdaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
cyclohexane 110-82-7	NOAEL=500 ppm	inhalation: vapour	13-14 w6 h/d, 5 d/w	mouse	EPA OPPTS 870.3465 (90- Day Inhalation Toxicity)

**Section 12. Ecological information**



**General ecological information:**

Toxic to aquatic organisms, May cause long-term adverse effects in the aquatic environment., Do not empty into drains / surface water / ground water.

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
acetone 67-64-1	LC50	8,120 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
acetone 67-64-1	EC50	8,800 mg/l	Daphnia	48 h	Daphnia pulex	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
acetone 67-64-1	NOEC	530 mg/l	Algae	8 d	Microcystis aeruginosa	DIN 38412-09
acetone 67-64-1	EC10	1,000 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
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)
butane 106-97-8	LC50	27.98 mg/l	Fish	96 h		not specified
butane 106-97-8	EC50	14.22 mg/l	Daphnia	48 h		not specified
butane 106-97-8	EC50	7.71 mg/l	Algae	96 h		not specified
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)
Calcium oxide 1305-78-8	LC50	50.6 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Calcium oxide 1305-78-8	EC50	49.1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Calcium oxide 1305-78-8	EC50	184.57 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Calcium oxide 1305-78-8	NOEC	48 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Calcium oxide 1305-78-8	EC20	229.2 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration 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	not specified
cyclohexane	LC50	4.53 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline

cyclohexane 110-82-7	EC50	0.9 mg/l	Daphnia	48 h	Daphnia magna	203 (Fish, Acute Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
cyclohexane 110-82-7	EC50	9.317 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
cyclohexane 110-82-7	NOEC	0.95 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
cyclohexane 110-82-7	IC50	29 mg/l	Bacteria	15 h	other:	not specified

**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
acetone 67-64-1	readily biodegradable	aerobic	81 - 92 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle 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)
cyclohexane 110-82-7	readily biodegradable	aerobic	77 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
acetone 67-64-1	-0.24					OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
cyclohexane 110-82-7		167		Pimephales promelas		QSAR (Quantitative Structure Activity Relationship)
cyclohexane 110-82-7	3.44				25 °C	QSAR (Quantitative Structure Activity Relationship)

**Section 13. Disposal considerations**

**Waste disposal of product:** Dispose of according to regulations.  
Contribution of this product to waste is very insignificant in comparison to article in which it is used

**Disposal for uncleaned package:** Completely empty pressurized gas containers (including propellant gas).  
Disposal must be made according to official regulations.

**Section 14. Transport information**

**Road and Rail Transport:**

Dangerous Goods information:	Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).
UN no.:	1950
Proper shipping name:	AEROSOLS
Class or division:	2.1
Packing group:	
Emergency information:	Refer to the Dangerous Goods - Initial Emergency Response Guide HB 76.

**Marine transport IMDG:**

UN no.:	1950
Proper shipping name:	AEROSOLS (Cyclohexane,Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)
Class or division:	2.1
Packing group:	
EmS:	F-D ,S-U
Seawater pollutant:	Marine pollutant

**Air transport IATA:**

UN no.:	1950
Proper shipping name:	Aerosols, flammable
Class or division:	2.1
Packing group:	
Packing instructions (passenger)	203
Packing instructions (cargo)	203

**Section 15. Regulatory information**

**SUSMP Poisons Schedule**                      None

**AICS:**    All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

**Section 16. Other information**

**Abbreviations/acronyms:**                      ADGC - Australian Dangerous Goods Code  
 IMDG: International Maritime Dangerous Goods code  
 IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
 STEL - Short term exposure limit  
 TWA - Time weighted average

**Reason for issue:**                              Reviewed SDS. Reissued with new date. involved chapters: 1,2,3

**Date of previous issue:** 01.04.2015

**Disclaimer:**

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