

Safety Data Sheet

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LOCTITE LB ML-11 LUBRICANT known as Loctite ML-11
360ml

SDS No. : 449028

V001.2

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SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER**Product name:** LOCTITE LB ML-11 LUBRICANT known as Loctite ML-11 360ml**Intended use:** Lubricant**Supplier:**
Henkel New Zealand Ltd
2 Allens Rd
Auckland, 2013
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 under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

GHS Classification:

Hazard Class	Hazard Category
Flammable aerosols	Category 1
Skin sensitizer	Category 1
Aspiration hazard	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): H222 Extremely flammable aerosol.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention: 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.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.

Response: P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P302+P352 IF ON SKIN: Wash with plenty of water.
P331 Do NOT induce vomiting.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Storage: P405 Store locked up.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal: 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
Petroleum gases, liquefied	68476-85-7	30- < 60 %
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm ² /sec (not cmr)	64742-54-7	< 10 %
Limonene D	5989-27-5	< 1 %
non hazardous ingredients~		30- < 60 %

SECTION 4 FIRST AID MEASURES

Ingestion: Do not induce vomiting.

Skin: Rinse with running water and soap.
Obtain medical attention if irritation persists.

Eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get immediate medical attention.

Inhalation: Fresh air, consult doctor.

First Aid facilities: Eye wash
Normal washroom facilities

Medical attention and special treatment: Aspiration may cause pulmonary edema or aspiration pneumonia.

SECTION 5. FIRE FIGHTING MEASURES

- Suitable extinguishing media:** Alcohol foam.
carbon dioxide
Water spray or fog.
- Decomposition products in case of fire:** Irritating fumes.
Oxides of carbon.
- Particular danger in case of fire:** Fire hazard when exposed to heat or flame.
- Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus.
Evacuate the area promptly.
Wear full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Ensure adequate ventilation.
Wear protective equipment.
Keep away from sources of ignition.
Don't breathe vapours or aerosole.
Remove sources of ignition.
- Environmental precautions:** Do not allow to enter the ground / soil.
Do not allow to enter in surface / ground water.
- Clean-up methods:** 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

- Precautions for safe handling:** Keep container tightly sealed.
Ensure adequate ventilation.
No smoking.
Avoid skin and eye contact.
- Conditions for safe storage:** Store in a cool, dry place.
Keep container in a well ventilated place.
Keep away from sources of ignition and naked flames.
Keep away from heat and direct sunlight.
Avoid static electricity.

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)
LPG (Liquefied petroleum gas) 68476-85-7		1,000	1,800	-	-	-
Oil mist, mineral 64742-54-7	Mist.	-	-	-	-	10
Oil mist, mineral	Mist.		5	-	-	-

Biological Exposure Indices:
None

Engineering controls:	Ensure good ventilation/extraction.
Eye protection:	Wear protective glasses.
Skin protection:	Protective clothing that covers arms and legs. Nitrile gloves.
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:	light brown aerosol
Odor:	Petroleum
pH:	Not available.
Melting point / freezing point:	< 0 °C (< 32 °F)
Specific gravity:	0.8
Flash point:	-105 - -60 °C (-157 - -76 °F)
Density:	0.80 - 0.82 g/cm ³
Solubility in water:	Insoluble

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	Avoid heating. Protect from direct sunlight. Heat, flames, sparks and other sources of ignition. Avoid static discharge.
Incompatible materials:	Reaction with strong oxidants.
Hazardous decomposition products:	Irritating and toxic gases or fumes may be released during a fire.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:**Ingestion:**

Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis.

Skin:

May cause an allergic skin reaction.

Repeated exposure may cause skin dryness or cracking.

Eyes:

This product may cause slight irritation to the eyes.

Inhalation:

Inhalation of mist or spray may cause irritation of the respiratory tract and nasal passages.

Other toxicological information:

Not available.

Aggravated med. condition:

None known

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Petroleum gases, liquefied 68476-85-7	LC50	539600 ppm	inhalation	2 h	mouse	not specified
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm ² /sec (not cmr) 64742-54-7	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)
Limonene D 5989-27-5	LD50 LD50	> 5,000 mg/kg > 5,000 mg/kg	oral dermal		rat rabbit	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm ² /sec (not cmr) 64742-54-7	not irritating	24 h	rabbit	not specified
Limonene D 5989-27-5	moderately irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm ² /sec (not cmr) 64742-54-7	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Limonene D 5989-27-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm ² /sec (not cmr) 64742-54-7	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Limonene D 5989-27-5	sensitising	Mouse local lymph node assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Petroleum gases, liquefied 68476-85-7	negative	inhalation: gas		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm ² /sec (not cmr) 64742-54-7	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Limonene D 5989-27-5	negative negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay sister chromatid exchange assay in mammalian cells	with and without with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) equivalent or similar to OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
Limonene D 5989-27-5	negative	oral: gavage		rat	not specified

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Petroleum gases, liquefied 68476-85-7	NOAEL=10000 ppm	inhalation: gas	14 w6 h/d, 5 d/w	rat	equivalent or similar to OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Limonene D 5989-27-5	NOAEL=825 mg/kg	oral: gavage	16 d5 d/w	rat	equivalent or similar to OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

SECTION 12. ECOLOGICAL INFORMATION

General ecological information: Do not empty into drains, soil or bodies of water.

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm ² /sec (not cmr) 64742-54-7	LL50	> 100 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm ² /sec (not cmr) 64742-54-7	EL50	> 10,000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm ² /sec (not cmr) 64742-54-7	EL50	> 100 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm ² /sec (not cmr) 64742-54-7	NOELR	100 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Limonene D 5989-27-5	LC50	0.702 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Limonene D 5989-27-5	LC10	0.32 mg/l	Fish	8 d	Pimephales promelas	OECD Guideline 212 (Fish, Short- term Toxicity Test on Embryo and Sac-Fry Stages)
Limonene D 5989-27-5	EC50	0.577 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Limonene D 5989-27-5	EC50	0.32 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Limonene D 5989-27-5	EC10	0.174 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Limonene D 5989-27-5	EC10	18 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Distillates (petroleum), hydrotreated heavy paraffinic, <3% DMSO, <20.5mm ² /sec (not cmr) 64742-54-7	not readily biodegradable.	aerobic	31 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Limonene D 5989-27-5	readily biodegradable	aerobic	71.4 %	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
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Limonene D 5989-27-5	4.57					not specified
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SECTION 13. DISPOSAL CONSIDERATIONS

- Waste disposal of product:** Collection and delivery to recycling enterprise or other registered elimination institution.
- 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

Land Transport:

UN no.: 1950
 Proper shipping name: AEROSOLS
 Class or division: 2.1
 Packing group:

Marine transport IMDG:

UN no.: 1950
 Proper shipping name: AEROSOLS (Distillates (Petroleum), hydrotreated light)
 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

New Zealand regulatory information:

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

HSNO Approval Number: Group standard HSR002515

NZIoC: The hazardous components of this product are listed on the New Zealand Inventory of chemicals (NZIoC).

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: STEL - Short term exposure limit
 TWA - Time weighted average
 HSNO - Hazardous Substances and New Organisms
 IMDG: International Maritime Dangerous Goods code
 IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 2, 3, 8, 9, 11, 12, 14, 15

Date of previous issue: 24.07.2017

Disclaimer:

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