



Safety Data Sheet

LOCTITE LB 8713 PENETRATING OIL known as SOLVO RUST
PEN OIL AEROSOL 354G

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V001.3

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

Product name: LOCTITE LB 8713 PENETRATING OIL known as SOLVO RUST PEN OIL AEROSOL 354G

Intended use: Solvent based cleaner

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 2	
Skin irritation	Category 2	
Serious eye irritation	Category 2A	
Target Organ Systemic Toxicant - Repeated exposure	Category 1	Central nervous system
Acute hazards to the aquatic environment	Category 3	
Chronic hazards to the aquatic environment	Category 3	

Hazard pictogram:



Signal word:

Danger

Hazard statement(s):	H223 Flammable aerosol. H372 Causes damage to organs through prolonged or repeated exposure. H412 Harmful 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. 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. P273 Avoid release to the environment.
Response:	P314 Get medical advice/attention if you feel unwell.
Storage:	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.

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
White mineral oil (petroleum), highly refined	8042-47-5	30- < 60 %
Hydrocarbon aliphatic aromatic naphthenic C9-12	64742-88-7	10- < 30 %
Kerosine (petroleum), hydrodesulfurized	64742-81-0	< 10 %
Carbon dioxide	124-38-9	< 10 %
non hazardous ingredients~		10- <= 30 %

Section 4. First aid measures

Ingestion:	Do not induce vomiting. Have victim rinse mouth thoroughly with water. Seek medical advice.
Skin:	Remove contaminated clothing and footwear. Wash with soap and water. Seek medical advice. Wash clothing before reuse.
Eyes:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.
Inhalation:	Move to fresh air in case of accidental inhalation of vapours. Seek medical advice.

First Aid facilities:	Eye wash and safety shower Normal washroom facilities
Medical attention and special treatment:	Treat symptomatically and supportively.

Section 5. Fire fighting measures

Suitable extinguishing media:	Foam Carbon dioxide. Dry chemical.
Improper extinguishing media:	Water spray jet
Decomposition products in case of fire:	Thermal decomposition can lead to release of irritating gases and vapors. carbon monoxide Carbon dioxide. Oxides of sulfur.
Particular danger in case of fire:	WARNING FLAMMABLE! Contents under pressure. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. Do not puncture or incinerate pressurized containers.
Special protective equipment for fire-fighters:	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.
Additional fire fighting advice:	In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains.

Section 6. Accidental release measures

Personal precautions:	See advice in section 8 Do not breathe solvent vapors. Ensure adequate ventilation.
Environmental precautions:	Ventilate area. Remove all sources of ignition. Do not let product enter drains.
Clean-up methods:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Wear suitable protective clothing, gloves and eye/face protection.

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:	Store in sealed original container. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Store below 35°C. (95°F) Keep away from heat and direct sunlight.

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)
Oil mist, refined mineral 8042-47-5			5				
Mineral turpentine 64742-88-7			480				
CARBON DIOXIDE IN COAL MINES 124-38-9		12,500	22,500				
CARBON DIOXIDE 124-38-9		5,000	9,000				
CARBON DIOXIDE IN COAL MINES CARBON DIOXIDE 124-38-9						30,000	54,000

Engineering controls:

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.

Eye protection:

Safety goggles or safety glasses with side shields.

Skin protection:

Chemical resistant, impermeable gloves.
Suitable protective gloves.
Wear suitable protective clothing.
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.
Solvent resistant gloves such as Viton, poly (vinyl alcohol), or equivalent is recommended.

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:**

Clear colorless
Aerosol, Liquid

Odor:

Kerosene

Specific gravity:

0.76

Boiling point:

142 °C (287.6 °F)

Flash point:

70 °C (158 °F)

Evaporation rate:

Faster than ether.

Flammability (solid, gas):

Extremely flammable aerosol.

Lower explosive limit:

0.6 %(V)

Upper explosive limit:

7.0 %(V)

Vapor pressure:

3.7 hPa

(no method)

Vapor density:

Heavier than air.

Solubility in water:

Insoluble

Auto ignition:

Not available.

Decomposition temperature:

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).
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors. carbon monoxide carbon dioxide Oxides of nitrogen.
Hazardous polymerization:	Will not occur.

Section 11. Toxicological information

Health Effects:	
Ingestion:	Not expected under normal conditions of use.
Skin:	Repeated exposure may cause skin dryness or cracking. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Eyes:	Symptoms may include severe irritation, pain, tearing, blurred vision.
Inhalation:	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
White mineral oil (petroleum), highly refined 8042-47-5	LD50 LC50 LD50	> 5,000 mg/kg > 5 mg/l > 2,000 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)
Kerosine (petroleum), hydrodesulfurized 64742-81-0	LD50 LC50 LD50	> 5,000 mg/kg > 5.28 mg/l > 2,000 mg/kg	oral inhalation dermal		rat rat rabbit	equivalent or similar to OECD Guideline 420 (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
White mineral oil (petroleum), highly refined 8042-47-5	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Hydrocarbon aliphatic aromatic naphthenic C9- 12 64742-88-7	slightly irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Kerosine (petroleum), hydrodesulfurized 64742-81-0	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
White mineral oil (petroleum), highly refined 8042-47-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Hydrocarbon aliphatic aromatic naphthenic C9- 12 64742-88-7	not irritating		rabbit	Draize Test

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
White mineral oil (petroleum), highly refined 8042-47-5	not sensitising	Buehler 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
White mineral oil (petroleum), highly refined 8042-47-5	negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	with with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
White mineral oil (petroleum), highly refined 8042-47-5	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Hydrocarbon aliphatic aromatic naphthenic C9- 12 64742-88-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
White mineral oil (petroleum), highly refined 8042-47-5	NOAEL=>= 1,600 mg/kg	oral: feed	90 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.**Ecotoxicity:** Harmful to aquatic life with long lasting effects.**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
White mineral oil (petroleum), highly refined 8042-47-5	LL50	> 100 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
White mineral oil (petroleum), highly refined 8042-47-5	EL50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
White mineral oil (petroleum), highly refined 8042-47-5	NOELR	100 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
White mineral oil (petroleum), highly refined 8042-47-5	IC50	> 100 mg/l	Bacteria	93 d	other:	other guideline:
Hydrocarbon aliphatic aromatic naphthenic C9-12 64742-88-7	LC50	> 2 - 5 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydrocarbon aliphatic aromatic naphthenic C9-12 64742-88-7	EC50	1.4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydrocarbon aliphatic aromatic naphthenic C9-12 64742-88-7	EC50	4.1 mg/l	Algae	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbon aliphatic aromatic naphthenic C9-12 64742-88-7	NOEC	0.76 mg/l	Algae	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbon aliphatic aromatic naphthenic C9-12 64742-88-7	EC0	1,000 mg/l	Bacteria	30 min		not specified
Kerosine (petroleum), hydrodesulfurized 64742-81-0	LL50	> 2 - 5 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Kerosine (petroleum), hydrodesulfurized 64742-81-0	EL50	1.4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
White mineral oil (petroleum), highly refined 8042-47-5	not readily biodegradable.	aerobic	31.3 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Hydrocarbon aliphatic aromatic naphthenic C9-12 64742-88-7	not readily biodegradable.	aerobic	55 - 63 %	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
White mineral oil (petroleum), highly refined 8042-47-5	> 4					EU Method A.8 (Partition Coefficient)

Section 13. Disposal considerations

- Waste disposal of product:** Do not incinerate.
Depressurize cans.
Follow all local, state, federal and provincial regulations for disposal.
- 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 Australian Emergency Response Guide Book

Marine transport IMDG:

- UN no.:** 1950
- Proper shipping name:** AEROSOLS
- Class or division:** 2.1
- Packing group:**
- EmS:** F-D ,S-U
- Seawater 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

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
 - AIIC - Australian Inventory of Industrial Chemicals (AIIC)
 - AICIS - Australian Industrial Chemicals Introduction Scheme

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Disclaimer:

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