

MSDS ATTACHMENT

PLEASE ATTACH THIS COMPLETED SHEET TO THE MSDS FOR :

PRODUCT :

BONDERITE L-FG 137 Acheson

DATE :

(MSDS date)

09.08.2022

1. Manufacturer/Supplier :

PPS Industries Limited
86 Hugo Johnston Drive, Auckland
New Zealand
P.O.Box 12823, Penrose, Auckland 1642
Phone : 64 9 579-1001
Facsimile : 64 9 579-9497
Emergency Phone : 0800 657-894
Website: www.ppsindustries.co.nz

Emergency Information :

National Poison Centre 0800 764-766
Chemcall 24/7 Emergency Response Service : 0800 243-622

13. Disposal Considerations :

Product

Recommendation - Consult local or national regulations to ensure proper disposal.

Packaging

Disposal must be made according to official regulations.

16. Other Information :

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.



Safety Data Sheet

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BONDERITE L-FG 137 GRAPHITE FORGING LUBRICANT
ACHESON known as DAG 137

SDS No. : 442365
V001.2
Revision: 09.08.2022
printing date: 06.09.2023

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: BONDERITE L-FG 137 GRAPHITE FORGING LUBRICANT ACHESON known as DAG 137

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).
Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

GHS Classification:

Hazard Class

Skin sensitizer
Acute hazards to the aquatic
environment

Hazard Category

Category 1
Category 2

Hazard pictogram:



Signal word:

Warning

Hazard statement(s):	H317 May cause an allergic skin reaction. H401 Toxic to aquatic life.
Precautionary Statement(s):	
Prevention:	P261 Avoid breathing mist/vapours. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves.
Response:	P302+P352 IF ON SKIN: Wash with plenty of water. 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.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description: Mixture
Aqueous solution of
Pigment

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Graphite	7782-42-5	10- < 20 %
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol	4719-04-4	0.1- < 1 %
non hazardous ingredients~		60- <= 100 %

SECTION 4 FIRST AID MEASURES

Ingestion:	Rinse out mouth. Do not drink. In case of adverse health effects seek medical advice.
Skin:	Rinse with running water and soap. Seek medical advice.
Eyes:	Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.
Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
First Aid facilities:	Normal washroom facilities Eye wash
Medical attention and special treatment:	Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Combustion behaviour:	Non-flammable (aqueous solution).

- Decomposition products in case of fire:** Thermal decomposition can lead to release of irritating gases and vapors.
Oxides of carbon.
- Special protective equipment for fire-fighters:** 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:** Danger of slipping on spilled product.
Wear impervious gloves and chemical splash goggles.
- Environmental precautions:** Do not empty into drains / surface water / ground water.
- Clean-up methods:** Dispose of contaminated material as waste according to Section 13.
Soak up with inert absorbent.

SECTION 7. HANDLING AND STORAGE

- Precautions for safe handling:** See advice in section 8
Wear suitable protective clothing, gloves and eye/face protection.
Use only with adequate ventilation.
- Conditions for safe storage:** Do not freeze.
Mix well before using
Store in a cool, frost-free place.
Wash thoroughly after handling.
Storage at 5 to 32°C is recommended.
Protect from freezing.

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)
GRAPHITE, ALL FORMS EXCEPT GRAPHITE FIBRES, RESPIRABLE DUST 7782-42-5	Respirable dust.		3			

Biological Exposure Indices:
None

Engineering controls:	Ensure good ventilation/extraction.
Eye protection:	Wear chemical goggles; face shield (if splashing is possible).
Skin protection:	Use of protective coveralls and long sleeves is recommended. Protective gloves made of rubber. 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 liquid
Odor:	no valuation
pH:	Not applicable
Specific gravity:	1.14
Flash point:	Not applicable
Vapor pressure:	Not determined
Density:	9.3 - 9.7 lb/gal
Solubility in water:	Disperses in water as a suspension (20 °C)
Viscosity (dynamic): (; Method: ;; ACH QCM VBR-001; Viscosity Measurement)	2,000 - 10,000 cp
VOC content (2004/42/EC)	0 % (2010/75/EU)

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of temperature and pressure.
Conditions to avoid:	Elevated temperatures. Freezing conditions.
Incompatible materials:	Acids.
Hazardous decomposition products:	Carbon dioxide, carbon monoxide and irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:

Ingestion: May cause gastrointestinal tract irritation if swallowed.
Skin: May cause mild skin irritation.
 May cause allergic skin reaction in susceptible individuals.
Eyes: This product is irritating to the eyes.
Inhalation: 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	Acute toxicity estimate (ATE) LC50	> 5,000 mg/kg	oral inhalation	4 h	rat	Expert judgement OECD Guideline 403 (Acute Inhalation Toxicity)
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5- triy)triethanol 4719-04-4	LD50 LC50 LD50	1,000 mg/kg 0.371 mg/l > 4,000 mg/kg	oral inhalation dermal	4 h	rat rat rat	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)
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5- triy)triethanol 4719-04-4	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)
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5- triy)triethanol 4719-04-4	irritating		rabbit	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)
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5- triy)triethanol 4719-04-4	sensitising	Mouse local lymphnode 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
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)
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	negative positive 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)
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus 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)
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	LOAEL=100 mg/kg	oral: gavage	12 weeksonce daily 5 times a week	rat	EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral))
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	NOAEL=30 mg/kg	oral: gavage	12 weeksonce daily 5 times a week	rat	EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral))
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4		inhalation: aerosol	6 hours per day, on 5 consecut	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)

SECTION 12. ECOLOGICAL INFORMATION

General ecological information: Do not empty into drains, soil or bodies of water.**Ecotoxicity:** Toxic to aquatic life.**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)
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol 4719-04-4	LC50	16.07 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol 4719-04-4	EC50	11.9 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol 4719-04-4	NOEC	1.56 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol 4719-04-4	EC50	6.66 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol 4719-04-4	EC20	170 mg/l	Bacteria	30 min	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol 4719-04-4	readily biodegradable	aerobic	> 90 - 100 %	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol 4719-04-4	-2				24 °C	EU Method A.8 (Partition Coefficient)

SECTION 13. DISPOSAL CONSIDERATIONS**Waste disposal of product:** Dispose of in accordance with local and national regulations.**Recommended cleanser:** Clean the packaging with water.**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**

Dangerous Goods information:

Land Transport:

Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

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: HSR002606

Site and Storage: Refer to the site and storage requirements for this Group Standard.
Refer to the HSNO controls for approved hazardous substances.

NZIoC: Compliant for NZIOC

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: STEL - Short term exposure limit
TWA - Time weighted average
HSNO - Hazardous Substances and New Organisms

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

Date of previous issue: 26.07.2017

Disclaimer:

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