MSDS ATTACHMENT

PLEASE ATTACH THIS COMPLETED SHEET TO THE MSDS FOR :

PRODUCT : **Bonderite L-GP Oildag Acheson**

DATE :
(MSDS date) **10.08.2022**

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

BONDERITE L-GP OILDAG GRAPHITE DISPERSION IN OIL
ACHESON known as OILDAG

SDS No. : 426822
V001.2
Revision: 10.08.2022
printing date: 28.10.2022

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: BONDERITE L-GP OILDAG GRAPHITE DISPERSION IN OIL ACHESON known as OILDAG

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	Hazard Category
Respiratory sensitizer	Category 1
Skin sensitizer	Category 1

Hazard pictogram:

Signal word: Danger

Hazard statement(s):
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statement(s):

Prevention:
P261 Avoid breathing mist/vapours.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.
P284 [In case of inadequate ventilation] wear respiratory protection.

Response:
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
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
Type of preparation: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO	64742-52-5	70- < 90 %
Graphite	7782-42-5	10- < 20 %
Rubber, natural	9006-04-6	1- < 10 %

SECTION 4 FIRST AID MEASURES

Ingestion:
Rinse mouth, do not induce vomiting, consult a doctor.

Skin:
Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.
If adverse health effects develop seek medical attention.

Eyes:
Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Inhalation:
Move to fresh air.
If adverse health effects develop seek medical attention.

First Aid facilities:
Normal washroom facilities
Eye wash

Medical attention and special treatment:
Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide, foam, powder
Fine water spray

Decomposition products in case of fire: Thermal decomposition can lead to release of irritating gases and vapors.
Carbon monoxide.
Carbon dioxide.

Special protective equipment for fire-fighters: Wear protective equipment.
Wear self-contained breathing apparatus.

Additional fire fighting advice: In case of fire, keep containers cool with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear impervious gloves and chemical splash goggles.
Danger of slipping on spilled product.

Environmental precautions: Do not empty into drains / surface water / ground water.

Clean-up methods: Soak up with inert absorbent.
Dispose of contaminated material as waste according to Section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Ensure that workrooms are adequately ventilated.
Gloves and safety glasses should be worn

Conditions for safe storage: Keep container tightly sealed.
Store in a cool, dry place.

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)
Oil mist, mineral 64742-52-5	Mist.					10
Oil mist, mineral	Mist.		5			
GRAPHITE, ALL FORMS EXCEPT GRAPHITE FIBRES, RESPIRABLE DUST 7782-42-5	Respirable dust.		3			

Biological Exposure Indices:
None

Engineering controls:	Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.
Eye protection:	Wear chemical goggles.
Skin protection:	Use of protective coveralls and long sleeves is recommended. Use impervious gloves. 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:	Hydrocarbon-like
pH:	Not applicableNot available.
Melting point / freezing point:	Not determined
Specific gravity:	0.96 - 0.98
Boiling point:	> 315 °C (> 599 °F)
Flash point: (; LUB-003; flash point (Cleveland open cup))	151 °C (303.8 °F)
Vapor density:	Not applicable
Density:	8.0 - 8.2 lb/gal
Solubility in water:	Insoluble
Viscosity (dynamic): (; 25 °C (77 °F); Method: ;; ACH QCM VBR-001; Viscosity Measurement)	1,200 - 1,500 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.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:

Ingestion: May cause gastrointestinal tract irritation if swallowed.
Skin: May cause skin sensitization.
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.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
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)
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)
Rubber, natural 9006-04-6	LD50 Acute toxicity estimate (ATE)	2,043 - 2,210 mg/kg 2,043 mg/kg	oral oral		rat	not specified Expert judgement

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)

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)

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)

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)

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)

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
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)
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)
Rubber, natural 9006-04-6	LC50	> 10,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Rubber, natural 9006-04-6	EC 50	> 10,000 mg/l	Bacteria			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 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: Collection and delivery to recycling enterprise or other registered elimination institution.

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:	Group standard 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 GHS: Globally Harmonized System CAS: Chemical Abstracts Service LD 50: Lethal Dose 50% LC 50: Lethal Concentration 50% 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: 1 - 16

Date of previous issue: 25.07.2017

Disclaimer:

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel New Zealand Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel New Zealand Limited concerning the properties of the material.

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