

# MSDS ATTACHMENT

PLEASE ATTACH THIS COMPLETED SHEET TO THE MSDS FOR :

PRODUCT :

QUAKER HOUGHTON HYDROLUBRIC NO. 2

DATE :

(MSDS date)

21.09.2019

**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

Revision Date 09-21-2019

Version 4

## SECTION 1: IDENTIFICATION

### Product identifier

Product Code(s) 05056012-M  
Product Name HYDROLUBRIC NO. 2

### Other means of identification

UN Number Not available

### Recommended use of the chemical and restrictions on use

Recommended Use Fire-resistant hydraulic fluid  
Uses advised against Any other purpose.

### Suppliers name, address and phone number

#### Manufacturer, Importer, Supplier

Houghton Australia Pty. Ltd.  
287 Wickham Road  
Moorabbin, Victoria  
Australia, 3189  
+61 1300 736 642

### Emergency telephone number

For further information, please contact: [ProductStewardship@houghtonintl.com](mailto:ProductStewardship@houghtonintl.com)

Emergency Telephone 3E Company (+)1 760 476 3960 ( Code 333938 )  
Australia: (+)61 1 800 686 951  
Australia (+)61 280 363 166  
New Zealand: (+)64 800 451719

## SECTION 2: HAZARDS IDENTIFICATION

### GHS Classification

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)

### Label elements

Exclamation mark



**Signal word**  
WARNING

**Hazard statements**  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation

**Precautionary Statements - Prevention**  
Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/eye protection/face protection

**Eyes**  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention

**Skin**  
IF ON SKIN: Wash with plenty of soap and water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse

**Other hazards**  
Harmful to aquatic life with long lasting effects  
Toxic to aquatic life

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture. Health hazard information is based on its ingredients

Chemical name	CAS No	Weight-%
Highly refined base oil (Viscosity >20.5 cSt @40°C)	-	50% - 100%
Sulfonic acids, petroleum, sodium salts	68608-26-4	2.5% - 10%
Potassium hydroxide	1310-58-3	0% - 1%

*The remaining composition is a mixture of non-classified ingredients or additives below the threshold for disclosure*

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346. See Section 15 for additional information on base oils.

### SECTION 4: FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	Do not get in eyes, on skin, or on clothing. When symptoms persist or in all cases of doubt seek medical advice.
<b>Inhalation</b>	Remove to fresh air.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.
<b>Eye contact</b>	Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Do not rub affected area. Call a physician if irritation persists.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice.

**Protection of First-aiders** Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Redness. Rash. Itching. Eye damage/irritation.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## SECTION 5: FIRE FIGHTING MEASURES

**Extinguishing media**

**Suitable Extinguishing Media**

Use CO2, dry chemical, or foam. Water spray or fog. Cool containers / tanks with water spray.

**Extinguishing media which shall not be used for safety reasons**

Do not use a solid water stream as it may scatter and spread fire

**Specific hazards arising from the chemical**

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke) Water runoff can cause environmental damage

**Hazardous decomposition products**

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide

**Special protective equipment and precautions for fire fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**For emergency responders** Use personal protection recommended in Section 8.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition.

**Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of

ignition.

**Recommended Shelf Life**

Shelf life 12 months

**Incompatible materials**

None known based on information supplied.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

Chemical name	Australia	New Zealand	New Zealand - Biological Exposure Indices (BEI)
Highly refined base oil (Viscosity >20.5 cSt @40°C)		TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	
Potassium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	

Chemical name	RCP OEL	Manufacturer
Distillates (petroleum), hydrotreated middle 64742-46-7	RCP: TWA 1200 mg/m <sup>3</sup> 143ppm	

**Appropriate engineering controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Safety glasses with side-shields.

**Skin and body protection**

Wear protective gloves/clothing.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls**

No information available.

**Hygiene measures**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended.

**Thermal hazards**

None under normal use conditions.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical state</b>	liquid	<b>Appearance</b>	clear amber
<b>Odor</b>	Not Determined	<b>Odor threshold</b>	Not Determined

Property	Values	Remarks
pH	9.2	@5%
Melting point / freezing point	Not Determined	
Boiling point / boiling range	Not Determined	

Flash point	> 150 °C / > 302 °F	
Evaporation rate	Not Determined	
Flammability (solid, gas)	Not Determined	
<b>Flammability Limit in Air</b>		
Upper flammability limit:	Not Determined	
Lower flammability limit:	Not Determined	
Vapor pressure	Not Determined	
Vapor density	Not Determined	
Relative density	0.88	g/cm <sup>3</sup> @15°C
Solubility(ies)	emulsifiable	
Partition coefficient	Not Determined	
Autoignition temperature	Not Determined	
Decomposition temperature	Not Determined	
Kinematic viscosity	Not Determined	
Explosive properties	Not applicable	
Oxidizing Properties	Not applicable	

**Other Information**

Viscosity, kinematic (100°C)	Not Determined
Pour Point	Not Determined
VOC Content (ASTM E-1868-10)	Not Determined
VOC content	Not Determined

**SECTION 10: STABILITY AND REACTIVITY****Reactivity**

None under normal use conditions.

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible materials**

None known based on information supplied.

**Hazardous decomposition products**

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide.

**SECTION 11: TOXICOLOGICAL INFORMATION****Acute toxicity****Information on likely routes of exposure****Product Information - Principle Routes of Exposure**

Inhalation	Based on available data, the classification criteria are not met.
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<b>Eye contact</b>	Irritating to eyes.
<b>Skin contact</b>	Irritating to skin.
<b>Ingestion</b>	Based on available data, the classification criteria are not met
<b>Symptoms</b>	Moderate skin irritation. Moderately irritating to the eyes.

**Numerical measures of toxicity - Product Information****Acute toxicity - Product Information**

Product does not present an acute toxicity hazard based on known information

**Acute toxicity - Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Highly refined base oil (Viscosity >20.5 cSt @40°C)	>2000 mg/kg	>2000 mg/kg	
Sulfonic acids, petroleum, sodium salts	>5000 mg/kg ( Rat )	>500 mg/kg ( Rabbit )	
Potassium hydroxide	333 mg/kg ( Rat )		

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	Irritating to skin.
<b>Serious eye damage/eye irritation</b>	Irritating to eyes.
<b>Respiratory or skin sensitization</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ systemic toxicity (single exposure)</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ systemic toxicity (repeated exposure)</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Exposure levels</b>	See section 8 for more information
<b>Interactive effects</b>	None known

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity**

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Sulfonic acids, petroleum, sodium		>1000: 96 h Pimephales promelas	>1000: 48 h Daphnia magna mg/L

salts		mg/L LC50	EC50
Potassium hydroxide		80: 96 h Gambusia affinis mg/L LC50 static 165: 24 h Poecilia reticulata mg/L LC50	270: 24 h Daphnia magna mg/L EC50

**Persistence and degradability**

The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.

**Bioaccumulative potential**

Chemical name	Partition coefficient
Sulfonic acids, petroleum, sodium salts	18.05
Potassium hydroxide	0.83

**Mobility**

No information available

**Other adverse effects**

No information available

**SECTION 13: DISPOSAL CONSIDERATIONS****Safe handling and disposal methods**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Disposal of any contaminated packaging**

Do not reuse empty containers.

**Environmental regulations**

No information available

**SECTION 14: TRANSPORT INFORMATION**

**ADG** Not Regulated

**IMDG** Not Regulated

**IATA** Not Regulated

**SECTION 15: REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Australia**

See section 8 for national exposure control parameters

**Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)**

No poisons schedule number allocated



New ZealandHSNO Hazard Classification:

6.3A - Substances that are irritating to the skin  
 6.4A - Substances that are irritating to the eye  
 9.1C - Substances that are harmful in the aquatic environment

HSNO Approval Number:

HSNO Approval Number: HSR002606

HSNO Group Standard: Lubricants (Subsidiary hazard) GROUP STANDARD 2017.

International Inventories

Inventory information may be utilizing alternative CAS#s or exemptions beyond those stated within this document For further information, please contact: ProductStewardship@houghtonintl.com

TSCA	Complies
DSL	Complies
AICS	Complies
PICCS	Complies
KECL	Complies
IECSC	Complies
ENCS	Complies
TCSI	Complies
NZIoC	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 AICS - Australian Inventory of Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 TCSI - Taiwan National Existing Chemical Inventory  
 NZIoC - New Zealand Inventory of Chemicals

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Chemicals Subject to Prior Informed Consent (PIC) Not applicable

Other Information

The highly refined base oil (Viscosity >20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

Chemical name	CAS No
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated	101316-72-7
Lubricating oils (petroleum), used, noncatalytically refined	101316-73-8
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5
Residual oils (petroleum), solvent deasphalted	64741-95-3
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4

Distillates (petroleum), solvent-refined light naphthenic	64741-97-5
Residual oils (petroleum), solvent-refined	64742-01-4
Extracts (petroleum), residual oil solvent	64742-10-5
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9
Residual oils (petroleum), hydrotreated	64742-57-0
Lubricating oils (petroleum), hydrotreated spent	64742-58-1
Residual oils (petroleum), solvent-dewaxed	64742-62-7
Distillates (petroleum), solvent-dewaxed heavy, paraffinic	64742-65-0
Paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7
Paraffin oils (petroleum), catalytic dewaxed light	64742-71-8
Lubricating oils (petroleum), C>25, hydrotreated bright stock-based	72623-83-7
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, high-viscosity	72623-85-9
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0
Lubricating oils (petroleum), C20-C50, hydrotreated neutral oil-based	72623-87-1
Lubricating oils	74869-22-0
Paraffin oils	8012-95-1
White mineral oil (petroleum)	8042-47-5
C18-C50 branched, cyclic and linear hydrocarbons – Distillates	848301-69-9

Chemical name	CAS No
Distillates (petroleum), straight-run middle	64741-44-2
Distillates (petroleum), heavy hydrocracked	64741-76-0
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5
Residual oils (petroleum), solvent deasphalted	64741-95-3
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4
Residual oils (petroleum), solvent-refined	64742-01-4
Distillates (petroleum), hydrotreated middle	64742-46-7
Distillates (petroleum), hydrotreated middle	64742-46-7
Distillates (petroleum), hydrotreated light	64742-47-8
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9
Residual oils (petroleum), hydrotreated	64742-57-0
Lubricating oils (petroleum), hydrotreated spent	64742-58-1
Residual oils (petroleum), solvent-dewaxed	64742-62-7
Distillates (petroleum), solvent-dewaxed heavy, paraffinic	64742-65-0
Paraffin oils (petroleum), catalytic dewaxed light	64742-71-8
Dec-1-ene, homopolymer, hydrogenated	68037-01-4
Lubricating oils (petroleum), C>25, hydrotreated bright stock-based	72623-83-7
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, high-viscosity	72623-85-9
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0
Lubricating oils (petroleum), C20-C50, hydrotreated neutral oil-based	72623-87-1
Lubricating oils	74869-22-0
White mineral oil (petroleum)	8042-47-5
C18-C50 branched, cyclic and linear hydrocarbons – Distillates	848301-69-9
Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE

### SECTION 16: OTHER INFORMATION

Revision Date  
Revision Note

09-21-2019  
This SDS has been revised in the following section(s), Company Logo.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

TWA	Time weighted average	STEL	Short term exposure limit
Ceiling	Maximum limit value:	(s) - Skin	Skin designation
+	Sensitizers	C	Carcinogen
STOT SE - Specific target organ systemic toxicity (Single exposure)			
STOT RE - Specific target organ systemic toxicity (repeated exposure)			
VOC - Volatile organic compounds			

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**