# **MSDS ATTACHMENT**

# PLEASE ATTACH THIS COMPLETED SHEET TO THE MSDS FOR:

**PRODUCT:** 

**QUAKER HOUGHTON SEF 4** 

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)
Product Name

41650114-M

SEF 4

Other means of identification

**UN Number** 

Not available

Recommended use of the chemical and restrictions on use

Recommended Use Uses advised against Metalworking fluid 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

**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** 

Aspiration toxicity

Category 1 - (H304)

Label elements

Health hazards



### Signal word

DANGER

#### Hazard statements

H304 - May be fatal if swallowed and enters airways

AUH066 - Repeated exposure may cause skin dryness or cracking

#### **Precautionary Statements - Response**

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

**Precautionary Statements - Storage** 

Store locked up

**Precautionary Statements - Disposal** 

Dispose of contents/container to an approved waste disposal plant

#### Other hazards

No information available

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Highly refined, low viscosity base oil (Viscosity <7 cSt	-	50% - 100%
@40°C)		

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

General advice

Immediate medical attention is required. Do not get in eyes, on skin, or on clothing.

Inhalation

Move to fresh air. Potential for aspiration if swallowed. Get medical attention immediately if

symptoms occur.

Skin contact

Wash off immediately with plenty of water.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while

rinsing.

Ingestion

Do not induce vomiting without medical advice. Clean mouth with water and afterwards drink plenty of water. Aspiration hazard if swallowed - can enter lungs and cause damage. If

symptoms persist, call a physician.

**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** 

May be fatal if swallowed and enters airways.

### 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) This material creates a fire hazard because it floats on water

#### 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**

See Section 12 for additional Ecological Information.

### 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

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

### 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, low viscosity base oil	·	TWA: 5 mg/m³	
(Viscosity <7 cSt @40°C)		STEL: 10 mg/m <sup>3</sup>	

Hydrocarbon solvent vapor mixtures which do not have substance specific occupational exposure limits may be evaluated by the Reciprocal Calculation Procedure (RCP) which assigns a recommended occupational exposure limit based on the mass composition and hydrocarbon group guidance values (GGVs). Applicable recommended occupational exposure limits are shown in the table below.

Chemical name	RCP OEL	Manufacturer
Distillates (petroleum), hydrotreated middle 64742-46-7	RCP: TWA 1200 mg/m³ 143ppm	
Distillates (petroleum), hydrotreated light 64742-47-8	RCP: TWA 1200 mg/m³ 182ppm	
Naphtha (petroleum), hydrotreated heavy 64742-48-9	RCP: TWA 1000 mg/m³	
C12-C14 isoalkanes 68551-19-9	RCP: TWA 1200 mg/m³	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	RCP C9-C15 aliphatics: 600mg/m <sup>3</sup>	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	TWA: 600 mg/m³	
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics NOT AVAILABLE	RCP C9-C15 aliphatics: 600mg/m <sup>3</sup>	
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	TWA: 150ppm TWA: 1200 mg/m³	
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics NOT AVAILABLE	TWA: 171 ppm TWA: 1200 mg/m³	
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics NOT AVAILABLE	RCP C9-C15 aliphatics: 600mg/m³	
Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	TWA: 165 ppm TWA: 1200 mg/m³	
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	RCP: TWA 1200 mg/m³ 182ppm	
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics NOT AVAILABLE	RCP: TWA 600 mg/m³	
Hydrocarbons, C14-C18, n-aikanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	RCP: TWA 600 mg/m³	
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics NOT AVAILABLE	RCP: TWA 600 mg/m <sup>s</sup>	CEFIC-HSPA: 1200 mg/m³

### 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

Do not eat, drink or smoke when using this product. Handle in accordance with good

industrial hygiene and safety practice.

Thermal hazards

None under normal use conditions.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state

liquid

Appearance

clear colorless

Odor

Mild mineral oil

Odor threshold

Not Determined

Va<u>lues</u> Property Not applicable

Melting point / freezing point Boiling point / boiling range

Flash point

**Evaporation rate** Flammability (solid, gas)

> 260 °C / > 500 °F > 121 °C / > 250 °F

Not Determined

Not Determined

**PMCC** 

(BuAc = 1)

Flammability Limit in Air

Upper flammability limit: Lower flammability limit: Not Determined Not Determined

Vapor pressure

Vapor density Relative density

Solubility(ies)

Partition coefficient **Autoignition temperature Decomposition temperature** 

Kinematic viscosity **Explosive properties** 

**Oxidizing Properties** 

Not Determined

Not Determined ~ 0.83

Insoluble in water

Not Determined Not Determined Not Determined

~ 4.4 cSt @ 40 °C Not applicable Not applicable

Remarks

g/cm3 @15°C

ASTM D 445

### Other Information

Viscosity, kinematic (100°C)

**Pour Point** 

VOC Content (ASTM E-1868-10) VOC content

Not Determined Not Determined

Not Determined 0.205 lbs/gal

MOD. EPA METHOD 24

### 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** Risk of serious damage to the lungs (by aspiration).

Eye contact Based on available data, the classification criteria are not met.

Skin contact Based on available data, the classification criteria are not met.

**Ingestion** Risk of product entering the lungs on vomiting after ingestion.

**Symptoms** May be fatal if swallowed and enters airways.

#### Numerical measures of toxicity - Product Information

### Acute toxicity - Product Information

May be harmful if swallowed and enters airways

#### Acute toxicity - Component Information

Germ cell mutagenicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Highly refined, low viscosity base oil	>2000 mg/kg	>2000 mg/kg	
(Viscosity <7 cSt @40°C)			

Based on available data, the classification criteria are not met.

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

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

**Specific target organ systemic**Based on available data, the classification criteria are not met. **toxicity (single exposure)** 

Specific target organ systemic Based on available data, the classification criteria are not met,

toxicity (repeated exposure)

**Aspiration hazard** 

Risk of serious damage to the lungs (by aspiration).

**Exposure levels** 

See section 8 for more information

Interactive effects

None known'

# SECTION 12: ECOLOGICAL INFORMATION

### **Ecotoxicity**

Not considered to be harmful to aquatic life.

### 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

No information available

### **Mobility**

The product is insoluble and floats on water

### 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

<u>ADG</u>

Not Regulated

**IMDG** 

Not Regulated

<u>IATA</u>

Not Regulated

# SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

### National regulations

### <u>Australia</u>

See section 8 for national exposure control parameters

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

No poisons schedule number allocated

### New Zealand

### **HSNO** Hazard Classification:

6.1E - Substances that are acutely toxic

### **HSNO Approval Number:**

HSNO Approval Number: HSR002614

HSNO Group Standard: Metal Industry Products (Toxic [6.1]) 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, low viscosity base oil (Viscosity <7 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

Chemical name	CAS No
Distillates (petroleum), hydrotreated middle	64742-46-7
Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03%	64742-46-7
aromatics	E ROUGES
Distillates (petroleum), hydrotreated light	64742-47-8
Naphtha (petroleum), hydrotreated heavy	64742-48-9
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9
C12-C14 isoalkanes	68551-19-9
White mineral oil (petroleum)	8042-47-5
C18-C50 branched, cyclic and linear hydrocarbons – Distillates	848301-69-9
Alkanes,C14-16	90622-46-1
Alkanes, C12-26-branched and linear	90622-53-0
Alkanes, C11-15-iso-	90622-58-5
Alkanes, C16-20-iso-	90622-59-6
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03%	NOT AVAILABLE
aromatics	
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C11-C14, n-alkanes, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C14-C18, n-alkanes, cyclics, aromatics (2-30%)	NOT AVAILABLE
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C13-C16, isoalkanes, cyclics, < 2% aromatics	NOT AVAILABLE
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03%	NOT AVAILABLE
aromatics	
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics	NOT AVAILABLE

# **SECTION 16: OTHER INFORMATION**

**Revision Date** 

09-21-2019

**Revision Note** 

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 Carcinogen

+ Sensitizers C
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**