

# MSDS ATTACHMENT

PLEASE ATTACH THIS COMPLETED SHEET TO THE MSDS FOR :

PRODUCT :

QUAKER HOUGHTON HOUGHTO-GRIND 4253B

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 2

## SECTION 1: IDENTIFICATION

### Product identifier

Product Code(s) 42425400-M  
Product Name HOUGHTO GRIND 4253 B

### Other means of identification

UN Number Not available

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

Recommended Use Metalworking 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

#### Distributor

Tyreline Distributors Limited  
87 Kahikatea Drive, Melville  
Hamilton, New Zealand 3206  
Phone: +64 7 843 3552  
Fax: +64 7 843 7389  
E-mail: LubeSales@tyreline.co.nz

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Auckland New Zealand  
Phone: +64 9 8374 438  
Fax: +64 9 837 4410  
Mobile: +64 274 874 023  
E-mail: ayozin@elitesurtech.co.nz

### 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

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements**Hazard statements**

None

Other hazards

May be harmful if swallowed  
Causes mild skin irritation

New Zealand**HSNO Hazard Classification:**

Not classified

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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

Chemical name	CAS No	Weight-%
2,2'-Oxydiethanol	111-46-6	2.5% - 10%
Neutralised Benzotriazole	95-14-7*	2.5% - 10%
2-Butoxyethanol	111-76-2	2.5% - 10%
Neutralised Propylidynetrimethanol, propoxylated, reaction products with ammonia	39423-51-3*	2.5% - 10%
Neutralised Potassium Hydroxide	1310-58-3*	1% - 2.5%

**SECTION 4: FIRST AID MEASURES**Description of first aid measures

<b>Inhalation</b>	Remove to fresh air.
<b>Skin contact</b>	Wash off immediately with plenty of water.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice.
<b>Protection of First-aiders</b>	Use personal protective equipment.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

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 extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

None

**Specific hazards arising from the chemical**

**Hazardous decomposition products**

Carbon oxides: Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

**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.

**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**

Handle in accordance with good industrial hygiene and safety practice.

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

Keep container tightly closed in a dry and well-ventilated place. Store in original container or corrosive resistant and/or lined container.

**Recommended Shelf Life**

Shelf life 12 months

**Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents. Aluminium.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

Chemical name	Australia	New Zealand	New Zealand - Biological Exposure Indices (BEI)
2,2'-Oxydiethanol	TWA: 23 ppm TWA: 100 mg/m <sup>3</sup>	TWA: 23 ppm TWA: 101 mg/m <sup>3</sup>	
2-Butoxyethanol	TWA: 20 ppm TWA: 96.9 mg/m <sup>3</sup> STEL: 50 ppm STEL: 242 mg/m <sup>3</sup> (s)	TWA: 25 ppm TWA: 121 mg/m <sup>3</sup> (s)	

**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 breathing vapors, mist or gas. 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**

<b>Physical state</b>	<b>liquid</b>	<b>Appearance</b>	<b>clear colorless</b>
<b>Odor</b>	<b>Characteristic</b>	<b>Odor threshold</b>	<b>Not Determined</b>
<u>Property</u>	<u>Values</u>		<u>Remarks</u>
pH	= 9.2		No information available
Melting point / freezing point	Not Determined		
Boiling point / boiling range	Not Determined		
Flash point	100 °C / 212 °F		Open cup
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	= 1.07		g/cm3 @15.5°C
Solubility(ies)	Soluble in water		
Partition coefficient	Not Determined		
Autoignition temperature	Not Determined		
Decomposition temperature	Not Determined		
Kinematic viscosity	20 cSt @ 40 °C		ASTM D 445
Explosive properties	Not applicable		
Oxidizing Properties	Not applicable		
<u>Other Information</u>			
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

None known based on information supplied.

### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Aluminium.

### Hazardous decomposition products

None known based on information supplied.

## 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.
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	Based on available data, the classification criteria are not met.
Symptoms	No information available.

#### Numerical measures of toxicity - Product Information

ATEmix (oral)	2,612.00 mg/kg
ATEmix (dermal)	11,789.00 mg/kg
ATEmix (inhalation-vapor)	245.00 mg/l
ATEmix (inhalation-dust/mist)	17.20 mg/l

#### 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
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2,2'-Oxydiethanol	12565 mg/kg ( Rat )	= 11890 mg/kg ( Rabbit )	
Neutralised Benzotriazole	560 mg/kg ( Rat )	1000 mg/kg ( Rabbit )	
2-Butoxyethanol	560 mg/kg ( Rat )	= 220 mg/kg ( Rabbit ) = 2270 mg/kg ( Rat )	= 2.21 mg/L ( Rat ) 4 h = 450 ppm ( Rat ) 4 h
Neutralised Propylidynetrimethanol, propoxylated, reaction products with ammonia	550 mg/kg ( Rat )	>1000 mg/kg ( Rat )	
Neutralised 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>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.
<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**

Not considered to be harmful to aquatic life.

<b>Chemical name</b>	<b>Algae/aquatic plants</b>	<b>Fish</b>	<b>Crustacea</b>
2,2'-Oxydiethanol	1000: 72 h Skeletonema costatum mg/L EC50	75200: 96 h Pimephales promelas mg/L LC50 flow-through	84000: 48 h Daphnia magna mg/L EC50
Neutralised Benzotriazole	231: 72 h Scenedesmus subspicatus mg/L EC50	25: 96 h Lepomis macrochirus mg/L LC50	91: 48 h Daphnia magna mg/L EC50
2-Butoxyethanol	1840: 72 h Pseudokirchneriella subcapitata mg/L EC50	1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50 1474: 96 h Oncorhynchus mykiss mg/L LC50	1698 - 1940: 24 h Daphnia magna mg/L EC50 1550: 48 h Daphnia magna mg/L EC50
Neutralised Propylidynetrimethanol, propoxylated, reaction products with ammonia			13: 48 h Daphnia magna mg/L EC50
Neutralised 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**

No information available

**Bioaccumulative potential**

Chemical name	Partition coefficient
2,2'-Oxydiethanol	-1.98
2-Butoxyethanol	0.81
Neutralised Propylidynetrimethanol, propoxylated, reaction products with ammonia	-1.13
Neutralised Potassium Hydroxide	0.83

**Mobility**

Will likely be mobile in the environment due to its water solubility Miscible with 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****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)**

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

**Poison Schedule Number** 6



New ZealandHSNO Hazard Classification:

Not classified

HSNO Group Standard: None.

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	Does not Comply
IECSC	Complies
ENCS	Complies
TCSI	Complies
NZIoC	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDL - 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

Not applicable

**SECTION 16: OTHER INFORMATION**Revision Date  
Revision Note09-21-2019  
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**