

Revision Date 09-21-2019

Version 3

## 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

### 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

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

### 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.

<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>Environmental exposure controls</b>	No information available.
<b>Hygiene measures</b>	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.
<b>Thermal hazards</b>	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 colorless
<b>Odor</b>	Characteristic	<b>Odor threshold</b>	Not Determined

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
<b>pH</b>	= 9.2	No information available
<b>Melting point / freezing point</b>	Not Determined	
<b>Boiling point / boiling range</b>	Not Determined	
<b>Flash point</b>	100 °C / 212 °F	Open cup
<b>Evaporation rate</b>	Not Determined	
<b>Flammability (solid, gas)</b>	Not Determined	
<b>Flammability Limit in Air</b>		
Upper flammability limit:	Not Determined	
Lower flammability limit:	Not Determined	
<b>Vapor pressure</b>	Not Determined	
<b>Vapor density</b>	Not Determined	
<b>Relative density</b>	= 1.07	g/cm3 @15.5°C
<b>Solubility(ies)</b>	Soluble in water	
<b>Partition coefficient</b>	Not Determined	
<b>Autoignition temperature</b>	Not Determined	
<b>Decomposition temperature</b>	Not Determined	
<b>Kinematic viscosity</b>	20 cSt @ 40 °C	ASTM D 445
<b>Explosive properties</b>	Not applicable	
<b>Oxidizing Properties</b>	Not applicable	

### Other Information

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

<b>Inhalation</b>	Based on available data, the classification criteria are not met.
<b>Eye contact</b>	Based on available data, the classification criteria are not met.
<b>Skin contact</b>	Based on available data, the classification criteria are not met.
<b>Ingestion</b>	Based on available data, the classification criteria are not met.

**Symptoms** No information available.

**Numerical measures of toxicity - Product Information**

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

Chemical name	Algae/aquatic plants	Fish	Crustacea
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 Zealand****HSNO Hazard Classification:**

Not Determined

**HSNO Approval Number:**

Not Determined

**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

<b>TSCA</b>	Complies
<b>DSL</b>	Complies

<b>AICS</b>	Complies
<b>PICCS</b>	Complies
<b>KECL</b>	Does not Comply
<b>IECSC</b>	Complies
<b>ENCS</b>	Complies
<b>TCSI</b>	Complies
<b>NZIoC</b>	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**

Not applicable

**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
+	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