# HOUGHTON®

# SAFETY DATA SHEET

Revision Date 08-26-2018 Version 5

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Code(s) 01620300-M

Product Name HOUGHTO-SAFE 620

Recommended Use Hydraulic Fluid Uses advised against Any other purpose.

Hazardous Material Information 11244

Review Act registry number (HMIRA

registry #)

Date HMIRA filed and date 04-28-2017

exemption granted (if applicable)

Manufacturer, Importer, Supplier

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Emergency telephone number

United States of America/Canada: 3E Company - 1-866-519-4752 (Code 333938)

# **SECTION 2: HAZARDS IDENTIFICATION**

# Classification

This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Workplace Hazardous Materials Information System (WHMIS) 2015

Specific target organ toxicity (repeated exposure)

Category 2

# Label elements

Signal word WARNING

#### **Hazard statements**

May cause damage to organs through prolonged or repeated exposure



# **Precautionary Statements**

Precautionary Statements - Prevention
Do not breathe dust/fume/gas/mist/vapors/spray
Precautionary Statements - Response
Get medical advice/attention if you feel unwell
Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Health Not Applicable.
Physical Not Applicable.

Other Information
Not applicable

# **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	30% - 60%
Neutralised Fatty acids, C8-10	68937-75-7*	1% - 5%
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether	9038-95-3	0.1% - 1%
Neutralised 2-diethylaminoethanol	100-37-8*	0.1% - 1%
2-Diethylaminoethanol	100-37-8	0.1% - 1%

Information on HMIRA filing can be found in Section 1 of the SDS. The exact percentage (concentration) of composition has been withheld as a trade secret.

# **SECTION 4: FIRST AID MEASURES**

#### **Description of first-aid measures**

General advice Do not breathe dust/fume/gas/mist/vapors/spray. When symptoms persist or in all cases of

doubt seek medical advice. Do not get in eyes, on skin, or on clothing.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention immediately if symptoms occur.

**Skin contact** 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.

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

rinsing.

Ingestion Clean mouth with water and afterwards drink plenty of water. Call a POISON CENTER or

doctor/physician if exposed or you feel unwell.

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**Protection of First-aiders** 

Use personal protective equipment. Ensure that medical personnel are aware of the

material(s) involved, and take precautions to protect themselves.

Most important symptoms and effects, both acute and delayed

Main Symptoms Gastrointestinal discomfort

Indication of immediate medical attention and special treatment needed

Notes to physician 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:, Use CO2, dry chemical, or foam, Water spray or fog

# Extinguishing media which shall not be used for safety reasons

None

# Special hazards arising from the substance or mixture

#### **Special Hazard**

Thermal decomposition can lead to release of irritating gases and vapors.

# **Hazardous decomposition products**

None under normal use

#### Advice for firefighters

# Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing.

Advice for non-emergency

personnel

Material can create slippery conditions.

Advice for emergency responders For personal protection see section 8.

# **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

#### Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dike to collect large liquid spills. After cleaning, flush away traces with water.

#### Reference to other sections

See Section 8/12/13 for additional information

# **SECTION 7: HANDLING AND STORAGE**

# Precautions for safe handling

Ensure adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice.

# Conditions for safe storage, including any incompatibilities

#### **Technical measures/Storage conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep at temperatures between 5 and 40 °C.

#### **Recommended Shelf Life**

Shelf life 36 months.

# Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases

#### Specific end uses

Specific use(s) Hydraulic Fluid

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

# Control parameters

#### **Exposure Guidelines**

Legend:

(s) Skin; TWA - Time-Weighted Average; STEL - Short Term Exposure Limit; Ceiling - Ceiling Value; TLV® - Threshold Limit Value; PEL (Permissible Exposure Limit); IDLH (immediately dangerous to life and health); WEEL (Workplace Environmental Exposure Level Guides)

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA WEEL
2,2'-Oxydiethanol 111-46-6				TWA: 10 mg/m <sup>3</sup>
2-Diethylaminoethanol 100-37-8	TWA: 2 ppm (s)	TWA: 10 ppm TWA: 50 mg/m³ (s)	IDLH: 100 ppm TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> (s)	

OSHA - Occupational Safety and Health Administration of the US Department of Labor ACGIH - American Conference of Governmental Industrial Hygienists

NIOSH - National Institute for Occupational Safety and Health

AIHA (American Industrial Hygiene Association)

# Exposure controls

Engineering Measures 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 In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and

protective suit. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Do not breathe vapors, mist or gas.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

Physical stateliquidAppearanceclear RedOdoramine-likeOdor thresholdNot Determined

<u>Property</u> <u>Values</u> <u>Remarks</u>

**pH** 9.7

Melting point / freezing point
Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)

Not Determined
Not Determined
Not Determined
Not Determined

Flammability Limit in Air

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

Vapor pressureNot DeterminedVapor densityNot Determined

Relative density 1.0800 g/cm3 @20°C

Solubility(ies)

Partition coefficient

Autoignition temperature

Decomposition temperature

Not Determined

Not Determined

Not Determined

Kinematic viscosity = 39.6 cSt @ 40 °C ASTM D 445

Explosive properties Not applicable Oxidizing Properties Not applicable

Other Information

Viscosity, kinematic (100°C) Not Determined

Pour Point < -40 °C / < °F ASTM D 97 VOC Content (ASTM E-1868-10) Not Determined ASTM E 1868-10

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 use conditions

Conditions to avoid

Do not freeze.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

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#### Hazardous decomposition products

None under normal use conditions

# **SECTION 11: TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

**Product Information** There is no data available for this product.

InhalationBased on available data, the classification criteria are not metEye contactBased on available data, the classification criteria are not metSkin contactBased on available data, the classification criteria are not met

Ingestion Ingestion constitutes the main danger because of the toxicity of ethylene glycol; May cause

adverse kidney effects

# **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2,2'-Oxydiethanol 111-46-6	12565 mg/kg ( Rat )	= 11890 mg/kg ( Rabbit )	
Neutralised Fatty acids, C8-10 68937-75-7*	10080 mg/kg ( Rat )	>2000 mg/kg(Rabbit)	
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether 9038-95-3	12300 μL/kg (Rat)	> 20 mL/kg(Rabbit)	
Neutralised 2-diethylaminoethanol 100-37-8*	1320 mg/kg ( Rat )	1100 mg/kg (Rabbit)	
2-Diethylaminoethanol 100-37-8	1320 mg/kg ( Rat )	1100 mg/kg (Rabbit)	

# Information on toxicological effects

**Symptoms** No information available.

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

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

**Germ cell mutagenicity** 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 toxicity (single Based on available data, the classification criteria are not met.

exposure)

Specific target organ toxicity

(repeated exposure)

May cause damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure if swallowed. Ingestion

constitutes the main danger because of the toxicity of ethylene glycol.

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

# **SECTION 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

No special environmental measures are necessary

Chemical name	Algae/aquatic plants	Fish	Crustacea
2,2'-Oxydiethanol	1000: 72 h Skeletonema costatum	75200: 96 h Pimephales promelas	84000: 48 h Daphnia magna mg/L
	mg/L EC50	mg/L LC50 flow-through	EC50
Neutralised 2-diethylaminoethanol	30: 72 h Desmodesmus subspicatus mg/L EC50	1660-1920: 96 h Pimephales promelas mg/L LC50 flow-through 100-220: 96 h Leuciscus idus mg/L LC50 static	83.6: 48 h Daphnia magna Straus mg/L EC50
2-Diethylaminoethanol	30: 72 h Desmodesmus subspicatus mg/L EC50	1660-1920: 96 h Pimephales promelas mg/L LC50 flow-through 100-220: 96 h Leuciscus idus mg/L LC50 static	83.6: 48 h Daphnia magna Straus mg/L EC50

Persistence and degradability

No information available.

#### Bioaccumulation

Chemical name	Partition coefficient
2,2'-Oxydiethanol	-1.98
111-46-6	
Neutralised 2-diethylaminoethanol	0.21
100-37-8*	
2-Diethylaminoethanol	0.21
100-37-8	

Mobility Will likely be mobile in the environment due to its water solubility.

Other adverse effects No information available

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

Waste Disposal Methods Dispose of in accordance with federal, state and local regulations.

**Contaminated packaging** Observe all label precautions until container is cleaned, reconditioned or destroyed.

# SECTION 14: TRANSPORT INFORMATION

**DOT** Not Regulated

TDG Not Regulated

IATA Not Regulated

IMDG Not Regulated

# **SECTION 15: REGULATORY INFORMATION**

# **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 Does not Comply
TCSI Does not Comply
NZIOC Does not Comply

#### 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

# U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Specific target organ toxicity (single or repeated exposure)

#### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

# **CERCLA**

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this regulation, Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

# **U.S. State Regulations**

# SCAQMD Rule 1144

This product has not been tested for VOC content by the ASTM E-1868-10 method and is not approved for sale or distribution in the SCAQM District of California if the product is used as a metal forming, metal removal, metal treating, metal protection fluid or as a direct-contact lubricant.

#### **California Proposition 65**

WARNING: This product contains a chemical(s) known to the State of California to cause cancer and/or birth defects or other reproductive harm.

Chemical name	CAS No	California Prop. 65
1,4-Dioxane	123-91-1	Carcinogen
Ethylene oxide	75-21-8	Carcinogen
·		Developmental
		Female Reproductive
		Male Reproductive

# **International Regulations**

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# 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**

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

STOT SE - Specific target organ systemic toxicity (Single exposure) STOT RE - Specific target organ systemic toxicity (repeated exposure)

VOC - Volatile organic compounds

NIOSH IDLH: Immediately Dangerous to Life or Health

Revision Date 08-26-2018

Revision Note Not applicable

**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**