



# SAFETY DATA SHEET

Revision Date 09-01-2019

Version 6

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

### Product identifier

**Product Code(s)** 42767000-M  
**Product Name** HOCUT 767  
**Recommended Use** Metalworking fluid  
**Uses advised against** Any other purpose.

### Manufacturer, Importer, Supplier

Houghton International Inc. Madison & Van Buren Aves. Valley Forge, PA 19482  
Telephone: 610-666-4000 FAX: 610-666-1376  
Website: www.houghtonintl.com  
Customer Service: 888-459-9844

Houghton Canada  
915 Meyerside Drive  
Mississauga  
ON  
L5T 1R8

### 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

Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1

### Label elements

#### Signal word

DANGER

#### Hazard statements

Causes serious eye damage  
May cause an allergic skin reaction  
May cause respiratory irritation  
Causes damage to organs through prolonged or repeated exposure



### Precautionary Statements

#### Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection  
 Contaminated work clothing should not be allowed out of the workplace  
 Use only outdoors or in a well-ventilated area  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product

#### Precautionary Statements - Response

Get medical advice/attention if you feel unwell

##### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor/physician

##### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

##### Inhalation

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

Call a POISON CENTER or doctor/physician if you feel unwell

#### Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

#### 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',2''-Nitrilotriethanol	102-71-6	5% - 10%
2-Aminoethanol	141-43-5	5% - 10%
Neutralised boric acid	10043-35-3*	1% - 5%
2,2'-Oxydiethanol	111-46-6	1% - 5%
Neutralised Potassium Hydroxide	1310-58-3*	1% - 5%
2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	4719-04-4	1% - 5%
Neutralised 2-Aminoethanol	141-43-5*	1% - 5%
2-n-Butyl-benzo[d]isothiazol-3-one	4299-07-4	0.1% - 1%

*The exact percentage (concentration) of composition has been withheld as a trade secret.*

CAS Numbers marked with \* indicate that the substance is neutralised during the manufacturing process. The substance is present as part of a complex mixture, usually called "ionic mixture", which is intended to facilitate the process/application of the product in use.

## SECTION 4: FIRST AID MEASURES

### Description of first-aid measures

<b>General advice</b>	Do not get in eyes, on skin, or on clothing. May produce an allergic reaction. Immediate medical attention is required. Do not breathe dust/fume/gas/mist/vapors/spray.
<b>Inhalation</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur.
<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. If eye irritation persists, consult a specialist. 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. Seek immediate medical attention/advice.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing. 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** Eye damage/irritation, Coughing and/ or wheezing, Rashes

### Indication of immediate medical attention and special treatment needed

**Notes to physician** Treat symptomatically. May cause sensitization of susceptible persons.

## 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**

Water runoff can cause environmental damage.

#### **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. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.

**Advice for non-emergency personnel** Evacuate personnel to safe areas. Material can create slippery conditions. Keep people away from and upwind of spill/leak.

**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. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

### 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

Refer to protective measures listed in Sections 7 and 8

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. 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.

#### **Recommended Shelf Life**

Shelf life 12 months.

#### **Incompatible materials**

Strong oxidizing agents, Strong acids, Strong bases

### Specific end uses

**Specific use(s)** Metalworking 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',2''-Nitrilotriethanol 102-71-6	TWA: 5 mg/m <sup>3</sup>			
2-Aminoethanol 141-43-5	TWA: 3 ppm STEL: 6 ppm	TWA: 3 ppm TWA: 6 mg/m <sup>3</sup>	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m <sup>3</sup> STEL: 6 ppm STEL: 15 mg/m <sup>3</sup>	
2,2'-Oxydiethanol 111-46-6				TWA: 10 mg/m <sup>3</sup>

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**                      Tightly fitting safety goggles. If splashes are likely to occur, wear:. Face-shield.

**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**                              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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	liquid	<b>Appearance</b>	clear , Blue
<b>Odor</b>	Mild amine	<b>Odor threshold</b>	Not Determined

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
<b>pH</b>	9.5	@5%
<b>Melting point / freezing point</b>	Not Determined	
<b>Boiling point / boiling range</b>	Not Determined	
<b>Flash point</b>	> 100 °C / > 212 °F	Cleveland Open Cup
<b>Evaporation rate</b>	Not Determined	
<b>Flammability (solid, gas)</b>	Not Determined	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	Not Determined	
<b>Lower flammability limit:</b>	Not Determined	
<b>Vapor pressure</b>	Not Determined	
<b>Vapor density</b>	Not Determined	
<b>Relative density</b>	1.07	g/cm <sup>3</sup> @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>	Not Determined
<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>	77 g/L	ASTM E-1868-10
<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 use conditions

**Conditions to avoid**

Do not freeze.

**Incompatible materials**

Strong oxidizing agents. Strong acids. Strong bases.

**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.

**Inhalation**

Irritating to respiratory system

**Eye contact**

May result in permanent damage including blindness

**Skin contact**

May cause sensitization by skin contact

**Ingestion**

Based on available data, the classification criteria are not met

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2,2',2''-Nitrilotriethanol 102-71-6		> 16 mL/kg ( Rat ) > 2000 mg/kg ( Rabbit )	
2-Aminoethanol 141-43-5	1720 mg/kg ( Rat )	= 1 mL/kg ( Rabbit ) = 1025 mg/kg ( Rabbit )	
Neutralised boric acid 10043-35-3*	3500 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 0.16 mg/L ( Rat ) 4 h
2,2'-Oxydiethanol	12565 mg/kg ( Rat )	= 11890 mg/kg ( Rabbit )	

111-46-6			
Neutralised Potassium Hydroxide 1310-58-3*	333 mg/kg ( Rat )		
2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol 4719-04-4	= 763 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	0.371 mg/L (4h) (Rat)
Neutralised 2-Aminoethanol 141-43-5*	1720 mg/kg ( Rat )	= 1 mL/kg ( Rabbit ) = 1025 mg/kg ( Rabbit )	
2-n-Butyl-benzo[d]isothiazol-3-one 4299-07-4	>2000 mg/kg ( Rat )	>2000 mg/kg ( Rabbit )	

### Information on toxicological effects

**Symptoms** Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Corrosive - causes irreversible eye damage. May cause irritation of respiratory tract. Signs and symptoms may include coughing, gasping, choking and difficulty breathing.

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

**Skin corrosion/irritation** None known.

**Serious eye damage/eye irritation** Causes severe eye damage

**Sensitization** May cause sensitization by skin contact.

**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** Contains a known or suspected reproductive toxin.

**Specific target organ toxicity (single exposure)** Target Organs. Respiratory system.

**Specific target organ toxicity (repeated exposure)** Causes damage to organs through prolonged or repeated exposure.

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

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic life with long lasting effects

Chemical name	Algae/aquatic plants	Fish	Crustacea
2,2',2''-Nitrilotriethanol	216: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 169: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	10600-13000: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 1000: 96 h <i>Pimephales promelas</i> mg/L LC50 static 450-1000: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	1386: 24 h <i>Daphnia magna</i> mg/L EC50
2-Aminoethanol	2.8: 72 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50	227: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 3684: 96 h <i>Brachydanio rerio</i> mg/L LC50 static 300 - 1000: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 114 - 196: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 200: 96 h	65: 48 h <i>Daphnia magna</i> mg/L EC50

		Oncorhynchus mykiss mg/L LC50 flow-through	
Neutralised boric acid	>28: 72 h Selenastrum capricornutum mg/L EC50	1020: 72 h Carassius auratus mg/L LC50 flow-through 627: 96 h Oncorhynchus tshawytscha mg/L LC50	115 - 153: 48 h Daphnia magna mg/L EC50
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 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
2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	6.66: 72 h Desmodesmus subspicatus mg/L EC50	16.07: 96 h Brachydanio rerio mg/L LC50	11.9: 48 h Daphnia magna mg/L EC50
Neutralised 2-Aminoethanol	2.8: 72 h Pseudokirchneriella subcapitata mg/L EC50	227: 96 h Pimephales promelas mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC50 static 300 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 114 - 196: 96 h Oncorhynchus mykiss mg/L LC50 static 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	65: 48 h Daphnia magna mg/L EC50
2-n-Butyl-benzo[d]isothiazol-3-one	0.45: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.24: 72 h Selenastrum capricornutum mg/L EC50	0.15: 96 h Oncorhynchus mykiss mg/L LC50	0.093: 48 h Daphnia magna mg/L EC50

**Persistence and degradability** No information available.

#### **Bioaccumulation**

Chemical name	Partition coefficient
2,2',2''-Nitrilotriethanol 102-71-6	-2.53
2-Aminoethanol 141-43-5	-1.91
Neutralised boric acid 10043-35-3*	-0.757
2,2'-Oxydiethanol 111-46-6	-1.98
Neutralised Potassium Hydroxide 1310-58-3*	0.83
Neutralised 2-Aminoethanol 141-43-5*	-1.91
2-n-Butyl-benzo[d]isothiazol-3-one 4299-07-4	2.86

**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**

#### **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

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

### **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

### **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**

- Respiratory or skin sensitization
- Serious eye damage/eye irritation
- Specific target organ toxicity (single or repeated exposure)

#### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Propylene oxide	100 lb			X

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

### **U.S. State Regulations**

**SCAQMD Rule 1144**

The sale or distribution in the SCAQM District of California for metal working fluids or direct-contact lubricants is allowed if EITHER the VOC of the product itself OR the VOC of the diluted product at the point of use is less than the following limits: (1) 75 g VOC/L for metal forming, metal removal, metal treating; (2) 50 g VOC/L for metal protection, direct-contact lubricant. The VOC of this product as sold is: 77 g/L gVOC/L (ASTM E-1868-10)

**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
Diethanolamine	111-42-2	Carcinogen
Ethylene oxide	75-21-8	Carcinogen Developmental Female Reproductive Male Reproductive
Propylene oxide	75-56-9	Carcinogen
1,4-Dioxane	123-91-1	Carcinogen

**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

**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 09-01-2019

Revision Note Company Logo

**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**