



HOUGHTON

# SAFETY DATA SHEET

Revision Date: 07-20-2015

Version 1

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

### 1.1. Product identifier

**Product Code(s):** 42896600-M  
**Product Name** HOCUT 795-H  
**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 LST 1R8

### Emergency telephone number

3E Company 1-866-519-4752 (USA, Canada, Mexico)  
Company Access Code: 333938

## SECTION 2: HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1

### GHS Label elements, including precautionary statements

**Signal Word**  
Warning

### **Hazard Statements**

Causes skin irritation  
Causes serious eye irritation  
May cause an allergic skin reaction



**Precautionary Statements****Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Contaminated work clothing should not be allowed out of the workplace

**Precautionary Statements - Response****Eyes**

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

If eye irritation persists: Get medical advice/attention

**Skin**

IF ON SKIN: Wash with plenty of soap and water

Wash contaminated clothing before reuse

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

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

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 %
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	-	25% - 60%
1-Aminopropan-2-ol	78-96-6	2.5% - 10%
Neutralised Dicyclohexylamine	101-83-7*	2.5% - 10%
Alcohols, C12-15, ethoxylated	68131-39-5	1% - 2.5%
Amines, coco alkyl, ethoxylated	61791-14-8	0% - 1%
1,2-Benzisothiazol-3(2H)-one	2634-33-5	0% - 1%

**Additional information**

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****4.1. Description of first-aid measures**

<b>General advice</b>	Immediate medical attention is required. Do not get in eyes, on skin, or on clothing. May produce an allergic reaction.
<b>Inhalation</b>	Move to fresh air.
<b>Skin contact</b>	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. Immediate medical attention is required.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting

without medical advice.

**Protection of First-aiders**

Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

**4.2. Most important symptoms and effects, both acute and delayed****Main Symptoms**

Causes burns, blistering, May cause allergic skin reaction

**4.3. 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

**5.1. 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, 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

**5.2. Special hazards arising from the substance or mixture****Special Hazard**

In the event of fire and/or explosion do not breathe fumes. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Water runoff can cause environmental damage. Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous Decomposition Products**

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide

**5.3. Advice for firefighters****Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas.

**Advice for non-emergency personnel**

Material can create slippery conditions.

**Advice for emergency responders** For personal protection see section 8.

**6.2. 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.

**6.3. 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.

**6.4. Reference to other sections**

See Section 8/12/13 for additional information

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces and sources of ignition.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures/Storage conditions

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

Strong oxidizing agents, Strong acids, Strong bases

### 7.3. Specific end uses

**Specific use(s)** Metalworking fluid

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA WEEL
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C) -	5 mg/m <sup>3</sup> as mist	5 mg/m <sup>3</sup> as mist		

#### Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

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/m <sup>3</sup> 143ppm	

### Exposure controls

#### Engineering Measures

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	If splashes are likely to occur, wear: Face-shield. Tightly fitting safety goggles.
<b>Skin and body protection</b>	Wear protective gloves/clothing.
<b>Respiratory protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.
<b>Hygiene measures</b>	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Physical state @20°C</b>	liquid	<b>Appearance</b>	clear , amber
<b>Odor</b>	Mild amine-like, Oily	<b>Odor Threshold</b>	Not Applicable
<u>Property</u>	<u>Values</u>		<u>Note</u>
<b>pH</b>	> 10		
<b>Melting Point / Freezing Point</b>	No information available		
<b>Boiling point/boiling range</b>	No information available		
<b>Flash point</b>	> 100 °C / > 212 °F		ASTM D 92
<b>Evaporation rate</b>	No information available		
<b>Flammability (solid, gas)</b>	No information available		
<b>Flammability Limits in Air</b>			
<b>upper flammability limit</b>	No information available		
<b>Lower flammability limit</b>	No information available		
<b>Vapor pressure</b>	No information available		
<b>Vapor density</b>	No information available		
<b>Relative density</b>	0.9400		g/cm3 @20°C
<b>Solubility(ies)</b>	Water solubility: emulsifiable		
<b>Partition coefficient: n-octanol/water</b>	Not Applicable		
<b>Autoignition temperature</b>	No information available		
<b>Decomposition temperature</b>	No information available		
<b>Viscosity, kinematic</b>	> 20.6 cSt @ 40 °C		
<b>Explosive properties</b>	Not Applicable		
<b>Oxidizing Properties</b>	Not Applicable		

**9.2 Other information**

<b>Viscosity, kinematic (100°C)</b>	No information available	
<b>Pour point</b>	No information available	
<b>VOC Content (ASTM E-1868-10)</b>	142 g/L	ASTM E 1868-10
<b>VOC Content</b>	No information available	

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

None under normal use conditions

**10.2. Chemical stability**

Stable under normal conditions

**10.3. Possibility of hazardous reactions**

None under normal use conditions

**10.4. Conditions to avoid**

Heat, flames and sparks, Keep away from open flames, hot surfaces and sources of ignition

**10.5. Incompatible Materials**

Strong oxidizing agents, Strong acids, Strong bases

**10.6. Hazardous decomposition products**

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

<b>Product Information</b>	There is no data available for this product
<b>Inhalation</b>	There is no data available for this product.
<b>Eye contact</b>	May result in permanent damage including blindness.
<b>Skin contact</b>	Corrosive. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
<b>Ingestion</b>	May be harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts.

**Component Information**

Chemical Name	LD50 Oral (Rat)	LD50 Dermal (Rat/Rabbit)	LC50 Inhalation
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	>2000 mg/kg	>2000 mg/kg	
1-Aminopropan-2-ol 78-96-6	2813 mg/kg ( Rat )	1851 mg/kg ( Rabbit )	
Alcohols, C12-15, ethoxylated 68131-39-5		>2000 mg/kg ( Rabbit )	
Amines, coco alkyl, ethoxylated 61791-14-8	= 1200 mg/kg ( Rat )		
1,2-Benzisothiazol-3(2H)-one 2634-33-5	1020 mg/kg ( Rat )	4115 mg/kg ( Rat )	

**Information on toxicological effects**

<b>Symptoms</b>	Moderate skin irritation. 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. Irritating to eyes.
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**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Sensitization</b>	May cause sensitization by skin contact.
<b>Germ Cell Mutagenicity</b>	None known.
<b>Carcinogenicity</b>	None known.

<b>Reproductive toxicity</b>	None known.
<b>Specific target organ systemic toxicity (single exposure)</b>	None known.
<b>Specific target organ systemic toxicity (repeated exposure)</b>	None known.
<b>Aspiration hazard</b>	None known.

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic life with long lasting effects

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
1-Aminopropan-2-ol	23: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	2390-2650: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through		108.82: 48 h <i>Daphnia magna</i> Straus mg/L EC50
Neutralised Dicyclohexylamine		62: 96 h <i>Brachydanio rerio</i> mg/L LC50 static		
Alcohols, C12-15, ethoxylated		1.4: 96 h <i>Pimephales promelas</i> mg/L LC50		0.14: 48 h <i>Daphnia magna</i> mg/L EC50
1,2-Benzisothiazol-3(2H)-one	0.11: 72 h <i>Selenastrum capricornutum</i> mg/L EC50 0.15: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	2.18: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 5.9: 96 h <i>Lepomis macrochirus</i> mg/L LC50		2.94: 48 h <i>Daphnia magna</i> mg/L EC50

### Persistence and degradability

The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.

### Bioaccumulation

Chemical Name	log Pow
1-Aminopropan-2-ol 78-96-6	-0.94
Neutralised Dicyclohexylamine 101-83-7*	3.5
1,2-Benzisothiazol-3(2H)-one 2634-33-5	0.4

### Mobility

No information available.

**Other adverse effects** No information available

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment

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

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>ICAO/IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated

## SECTION 15: REGULATORY INFORMATION

### International Inventories

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

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**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

### 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

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	no
<b>Fire Hazard</b>	no
<b>Sudden Release of Pressure Hazard</b>	no
<b>Reactive Hazard</b>	no

#### 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

This material, as supplied, does not contain any substances regulated as hazardous substances under the 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

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: 142 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.

### International Regulations

**Mexico - Grade**

Slight risk, Grade 1

### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

### **WHMIS Hazard Class**

D2B Toxic materials

### Other information

Not applicable

The highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

Chemical Name	CAS-No
Distillates (petroleum), straight-run middle	64741-44-2
Distillates (petroleum), heavy hydrocracked	64741-76-0
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5
Distillates (petroleum), hydrotreated middle	64742-46-7
Distillates (petroleum), hydrotreated middle	64742-46-7
Distillates (petroleum), hydrotreated light	64742-47-8
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9
Distillates (petroleum), solvent-dewaxed heavy, paraffinic	64742-65-0
Paraffin oils (petroleum), catalytic dewaxed light	64742-71-8
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0
Lubricating oils (petroleum), C20-C50, hydrotreated neutral oil-based	72623-87-1
White mineral oil (petroleum)	8042-47-5
C18-C50 branched, cyclic and linear hydrocarbons – Distillates	848301-69-9
Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE

## SECTION 16: OTHER INFORMATION

**NFPA**

**Health Hazard 2**

**Flammability 1**

**Instability 0**

**Physical and chemical hazards -**

### **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)

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

VOC - Volatile organic compounds

NIOSH IDLH: Immediately Dangerous to Life or Health

**Revision Date:**

07-20-2015

**Revision Note**

No information available

### **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.

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