

# SAFETY DATA SHEET

**Issuing Date:** 04-23-2015 **Revision Date:** 04-23-2015 **Version** 1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Code(s): 42000801-M Product Name HOCUT 801

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 1 Sub-category B |
|-----------------------------------|---------------------------|
| Serious eye damage/eye irritation | Category 1                |
| Skin sensitization                | Category 1                |

#### GHS Label elements, including precautionary statements

# **Signal Word**

DANGER

#### **Hazard Statements**

Causes severe skin burns and eye damage May cause an allergic skin reaction



### **Precautionary Statements**

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

Do not breathe 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**

Immediately call a POISON CENTER or doctor/physician

Specific treatment is urgent (see supplemental first aid instructions on this label)

#### Eves

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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

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

#### Inhalation

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

Immediately call a POISON CENTER or doctor/physician

#### Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

### **Precautionary Statements - Storage**

Store locked up

# 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               | -          | 2.5% - 10% |
| oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)  |            |            |
| 1-Aminopropan-2-ol                                  | 78-96-6    | 2.5% - 10% |
| Neutralised Dicyclohexylamine                       | 101-83-7*  | 2.5% - 10% |
| Oxirane, 2-methyl-, polymer with oxirane            | 9003-11-6  | 2.5% - 10% |
| Sulfonic acids, petroleum, sodium salts             | 68608-26-4 | 2.5% - 10% |
| Amines, coco alkyl, ethoxylated                     | 61791-14-8 | 2.5% - 10% |
| Highly refined base oil (Viscosity >20.5 cSt @40°C) | -          | 1% - 2.5%  |
| 1,2-Benzisothiazol-3(2H)-one                        | 2634-33-5  | 0% - 1%    |

#### **Additional information**

See Section 11 for more information. See Section 15 for additional information on base oils.

### **SECTION 4: First aid measures**

### 4.1. Description of first-aid measures

General advice Immediate medical attention is required. Do not get in eyes, on skin, or on clothing. May

produce an allergic reaction.

**Inhalation** Move to fresh air.

Skin contact IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin

with water/ shower. Immediate medical attention is required.

**Eye contact** 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.

**Ingestion** Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting

without medical advice.

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

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

None

#### 5.2. 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

# 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

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.

# 6.3. Methods and materials for containment and cleaning up

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.

### 7.2. 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**

No information available.

### **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**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| Chemical Name   | ACGIH TLV       | OSHA PEL        | NIOSH IDLH | AIHA WEEL |
|---|-----------------|-----------------|------------|-----------|
| Highly refined, low viscosity<br>mineral oils/hydrocarbons<br>(Viscosity >7 - <20.5 cSt<br>@40°C) | 5 mg/m³ as mist | 5 mg/m³ as mist |            |           |
| Highly refined base oil<br>(Viscosity >20.5 cSt @40°C)  | 5 mg/m³ as mist | 5 mg/m³ as mist |            |           |

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<br>64742-46-7 | RCP: TWA 1200 mg/m <sup>3</sup> 143ppm |              |

#### **Exposure controls**

**Engineering Measures** Showers.

> Evewash stations. Ventilation systems.

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

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

Skin and body protection Wear protective gloves/clothing.

Respiratory protection 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.

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

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state @20°C liquid **Appearance** amber

Mild amine-like **Odor Threshold** Not Applicable Odor

Property Values Note

рΗ 10.2

No information available. **Melting Point / Freezing Point** Boiling point/boiling range 102 °C / 216 °F Flash point Not Applicable

**Evaporation rate** 

(BuAc = 1)

Flammability (solid, gas) No information available

Flammability Limits in Air

upper flammability limit No information available. Lower flammability limit No information available.

No information available. Vapor pressure Vapor density No information available.

Relative density 1.0057 @15.5°C

Solubility(ies) Water solubility: emulsifiable

Partition coefficient: n-octanol/water Not Applicable

**Autoignition temperature** No information available **Decomposition temperature** No information available Viscosity, kinematic No information available

**Explosive properties** Not Applicable **Oxidizing Properties** Not Applicable

9.2 Other information

No information available Viscosity, kinematic (100°C) Pour point No information available

**VOC Content** 189 g/L ASTM 1868-10

# **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

Do not freeze

#### 10.5. Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases

### 10.6. 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** There is no data available for this product.

**Eye contact** May result in permanent damage including blindness.

**Skin contact**Corrosive. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons.

**Ingestion** 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<br>78-96-6  | 2813 mg/kg ( Rat )   | 1851 mg/kg (Rabbit)      |                         |
| Oxirane, 2-methyl-, polymer with oxirane 9003-11-6                                       | = 5700 mg/kg ( Rat ) |                          | = 320 mg/m³ ( Rat ) 4 h |
| Sulfonic acids, petroleum, sodium salts 68608-26-4                                       | 5000 mg/kg ( Rat )   |                          |                         |
| Amines, coco alkyl, ethoxylated 61791-14-8   | = 1200 mg/kg ( Rat ) |                          |                         |
| Highly refined base oil (Viscosity >20.5 cSt @40°C)                                      | >2000 mg/kg          | >2000 mg/kg              |                         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5  | 1020 mg/kg ( Rat )   | 4115 mg/kg (Rat)         |                         |

### Information on toxicological effects

Symptoms

Causes burns. May result in permanent damage including blindness. 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.

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

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

Germ Cell Mutagenicity None known.

Carcinogenicity None known.

Reproductive toxicity None known.

Specific target organ systemic toxicity (single exposure)

None known.

Specific target organ systemic toxicity (repeated exposure)

None known.

Aspiration hazard None known.

Other adverse effects The document number 031 published 05-2013 by the DGUV Germany has been

considered in the production of this safety data sheet (SDS). As stated in this document the classification of dicyclohexylamine is currently inconsistent between the manufacturer and the REACH classification. The classification used in this document is based on the

European harmonised classification.

# **SECTION 12: Ecological information**

#### **Ecotoxicity**

No special environmental measures are necessary.

| 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 Desmodesmus<br>subspicatus mg/L EC50  | 2390-2650: 96 h Pimephales<br>promelas mg/L LC50<br>flow-through                          |                            | 108.82: 48 h Daphnia<br>magna Straus mg/L EC50      |
| Neutralised<br>Dicyclohexylamine         |  | 62: 96 h Brachydanio rerio<br>mg/L LC50 static  |                            |   |
| Oxirane, 2-methyl-, polymer with oxirane |  | >1000: 96 h Leuciscus idus<br>mg/L LC50   |                            | >100: 48 h Daphnia magna<br>mg/L EC50               |
| Sulfonic acids, petroleum, sodium salts  |  | 3.9: 96 h Oncorhynchus<br>mykiss mg/L LC50<br>32.6: 96 h Pimephales<br>promelas mg/L LC50 |                            | 3.9: 48 h Daphnia magna<br>mg/L EC50                |
| 1,2-Benzisothiazol-3(2H)-on<br>e         | 0.11: 72 h Selenastrum<br>capricornutum mg/L EC50<br>0.15: 72 h Desmodesmus<br>subspicatus mg/L EC50 | 2.18: 96 h Oncorhynchus<br>mykiss mg/L LC50<br>5.9: 96 h Lepomis<br>macrochirus mg/L LC50 |                            | 2.94: 48 h Daphnia magna<br>mg/L EC50               |

### Persistence and degradability

No information available.

### **Bioaccumulation**

No information available.

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

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

## **SECTION 14: Transport information**

DOT

UN/ID No UN1760

Proper shipping name Corrosive liquids, n.o.s.

Hazard class 8
Packing group

Special Provisions IB3, T7, TP1, TP28

Description UN1760, CORROSIVE LIQUID, N.O.S (1-AMINOPROPAN-2-OL), 8, III

(Dicyclohexylamine)

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**TDG** 

UN/ID No UN1760

Proper shipping name CORROSIVE LIQUID, N.O.S.

Hazard class 8
Packing Group III

Description UN1760, CORROSIVE LIQUID, N.O.S (1-AMINOPROPAN-2-OL), 8, III

ICAO/IATA

**UN No.** UN1760

Proper shipping name CORROSIVE LIQUID, N.O.S.

Hazard class 8
Packing group III
Special Provisions A3

Description UN1760, CORROSIVE LIQUID, N.O.S (1-AMINOPROPAN-2-OL), 8, III

IMDG/IMO

**UN No.** UN1760

Proper shipping name CORROSIVE LIQUID, N.O.S.

Hazard class 8
Packing Group III
EmS No. F-A, S-B
Special Provisions 274

Description UN1760, CORROSIVE LIQUID, N.O.S (1-AMINOPROPAN-2-OL), 8, III

(Dicyclohexylamine)

## **SECTION 15: Regulatory information**

**International Inventories** 

**TSCA** Complies

**DSL** All components are NOT on the Chemical Inventory

AICS
PICCS
Does not Comply
NECL
Complies
Complies
PICSC
Does not Comply
Complies
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

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**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

| Acute Health Hazard               | Yes |
|-----------------------------------|-----|
| Chronic Health Hazard             | no  |
| Fire Hazard                       | no  |
| Sudden Release of Pressure Hazard | no  |
| Reactive Hazard                   | 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**

This product has not been tested for compliance with California's SCAQMD Rule 1144. For futher information, please contact the material supplier.

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### **International Regulations**

### 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

E Corrosive material D2B Toxic materials

### Other information

Not applicable

The highly refined base oil (Viscosity >20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

| Chemical Name   | CAS-No      |
|---|-------------|
| Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, | 101316-72-7 |
| hydrogenated  |             |
| Lubricating oils (petroleum), used, noncatalytically refined  | 101316-73-8 |
| Distillates (petroleum), solvent-refined heavy paraffinic     | 64741-88-4  |
| Residual oils (petroleum), solvent-refined                    | 64742-01-4  |
| Extracts (petroleum), residual oil solvent                    | 64742-10-5  |

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| Distillates (petroleum), hydrotreated heavy naphthenic                | 64742-52-5 |
|---|------------|
| Distillates (petroleum), hydrotreated light naphthenic                | 64742-53-6 |
| Distillates (petroleum), hydrotreated heavy paraffinic                | 64742-54-7 |
| Residual oils (petroleum), hydrotreated                               | 64742-57-0 |
| Lubricating oils (petroleum), hydrotreated spent                      | 64742-58-1 |
| Residual oils (petroleum), solvent-dewaxed                            | 64742-62-7 |
| Distillates (petroleum), solvent-dewaxed heavy, paraffinic            | 64742-65-0 |
| Paraffin oils (petroleum), catalytic dewaxed heavy                    | 64742-70-7 |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based  | 72623-86-0 |
| Lubricating oils (petroleum), C20-C50, hydrotreated neutral oil-based | 72623-87-1 |
| Lubricating oils  | 74869-22-0 |
| Paraffin oils   | 8012-95-1  |
| White mineral oil (petroleum)   | 8042-47-5  |

### 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    |
| 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     |
| 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 -Health Hazard 2\* Flammability 1 Physical Hazard 0 Personal protection X

Chronic Hazard Star Legend \*Indicates a chronic health hazard.

#### 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

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**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.

end