# SAFETY DATA SHEET

**Issuing Date:** 06-21-2015 **Revision Date:** 01-13-2015 **Version** 1

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

### 1.1. Product identifier

**Product Code(s):** 42795000-M
**Product Name** HOCUT 795

**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 |

**GHS Label elements, including precautionary statements**

**Signal Word**
DANGER

**Hazard Statements**
Causes severe skin burns and eye damage

**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

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician
Specific treatment is urgent (see supplemental first aid instructions on this label)

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

**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 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% |
| Neutralised boric acid | 10043-35-3* | 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.
SVHC. ...Contains... BORIC ACID Concentration: < 5,5%. 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.

**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.

**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

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

**Notes to physician** Treat symptomatically.

## 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). Thermal decomposition can lead to release of irritating gases and vapors. Water runoff can cause environmental damage.

**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**
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

### 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

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. 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**
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**

| 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/m³ as mist | 5 mg/m³ as mist | | |
| Neutralised boric acid 10043-35-3* | STEL: 6 mg/m³ inhalable fraction<br>TWA: 2 mg/m³ inhalable fraction | | | |

**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/m³ 143ppm | |

**Exposure controls**

**Engineering Measures** Showers.
Eyewash stations.
Ventilation systems.

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

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

**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.

**Hygiene measures** Regular cleaning of equipment, work area and clothing is recommended.

## SECTION 9: Physical and chemical properties

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

| | | | |
|---|---|---|---|
| **Physical state @20°C** | liquid | **Appearance** | clear , amber |
| **Odor** | No information available | **Odor Threshold** | Not Applicable |

| Property | Values | Note |
|---|---|---|
| **pH** | > 10 | |
| **Melting Point / Freezing Point** | No information available. | |
| **Boiling point/boiling range** | No information available. | |
| **Flash point** | > 100 °C / > 212 °F | ASTM D 92 |
| **Evaporation rate** | No information available | |
| **Flammability (solid, gas)** | No information available | |
| **Flammability Limits in Air** | | |
| **upper flammability limit** | No information available. | |
| **Lower flammability limit** | No information available. | |
| **Vapor pressure** | No information available. | |
| **Vapor density** | No information available. | |
| **Relative density** | 0.9500 | g/cm3 @20°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** | > 30 cSt @ 40 °C | |
| **Explosive properties** | Not Applicable | |
| **Oxidizing Properties** | Not Applicable | |

### 9.2 Other information

| | | |
|---|---|---|
| **Viscosity, kinematic (100°C)** | No information available | |
| **Pour point** | No information available | |
| **VOC Content** | 166 g/L | ASTM E 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**

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**

**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.

**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 78-96-6 | 2813 mg/kg ( Rat ) | 1851 mg/kg ( Rabbit ) | |
| Neutralised boric acid 10043-35-3* | 3500 mg/kg ( Rat ) | | |
| 1,2-Benzisothiazol-3(2H)-one 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.

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

**Sensitization** None known.

**Germ Cell Mutagenicity** None known.

**Carcinogenicity** None known.

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

**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**

| 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 subspicatus mg/L EC50 | 2390-2650: 96 h Pimephales promelas mg/L LC50 flow-through | | 108.82: 48 h Daphnia magna Straus mg/L EC50 |
| Neutralised Dicyclohexylamine | | 62: 96 h Brachydanio rerio mg/L LC50 static | | |
| Neutralised boric acid | >28: 72 h Selenastrum capricornutum mg/L EC50 | 1020: 72 h Carassius auratus mg/L LC50 flow-through<br>627: 96 h Oncorhynchus tschawytscha mg/L LC50 | | 115 - 153: 48 h Daphnia magna mg/L EC50 |
| 1,2-Benzisothiazol-3(2H)-one | 0.11: 72 h Selenastrum capricornutum mg/L EC50<br>0.15: 72 h Desmodesmus subspicatus mg/L EC50 | 2.18: 96 h Oncorhynchus mykiss mg/L LC50<br>5.9: 96 h Lepomis macrochirus mg/L LC50 | | 2.94: 48 h Daphnia magna 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<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** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: Transport information

**DOT**

| | |
|---|---|
| **UN/ID No** | UN1760 |
| **Proper shipping name** | Corrosive liquid, n.o.s |
| **Hazard class** | 8 |
| **Packing group** | II |
| **Special Provisions** | B2, IB2, TII, TP2, TP27 |
| **Description** | UN1760, CORROSIVE LIQUID, N.O.S (1-AMINOPROPAN-2-OL), 8, II, Marine Pollutant (NEUTRALISED DICYCLOHEXYLAMINE, AMINES, COCO ALKYL, ETHOXYLATED) |
| **Emergency Response Guide Number** | 154 |

**TDG**

| | |
|---|---|
| **UN/ID No** | UN1760 |
| **Proper shipping name** | CORROSIVE LIQUID, N.O.S. |
| **Hazard class** | 8 |
| **Packing Group** | II |
| **Description** | UN1760, CORROSIVE LIQUID, N.O.S. (1-AMINOPROPAN-2-OL), 8, II, Marine Pollutant |

**ICAO/IATA**

| | |
|---|---|
| **UN No.** | UN1760 |
| **Proper shipping name** | CORROSIVE LIQUID, N.O.S. |
| **Hazard class** | 8 |
| **Packing group** | II |
| **Description** | UN1760, CORROSIVE LIQUID, N.O.S. (1-AMINOPROPAN-2-OL), 8, II |

**IMDG/IMO**

| | |
|---|---|
| **UN No.** | UN1760 |
| **Proper shipping name** | CORROSIVE LIQUID, N.O.S. |
| **Hazard class** | 8 |
| **Packing Group** | II |
| **EmS No.** | F-A, S-B |
| **Special Provisions** | 274 |
| **Description** | UN1760, CORROSIVE LIQUID, N.O.S. (1-AMINOPROPAN-2-OL), 8, II, Marine Pollutant (NEUTRALISED DICYCLOHEXYLAMINE, AMINES, COCO ALKYL, ETHOXYLATED) |

## SECTION 15: Regulatory information

**International Inventories**

| | |
|---|---|
| **TSCA** | Complies |
| **DSL** | All components are NOT on the Chemical Inventory |
| **AICS** | Does not Comply |
| **PICCS** | Does not Comply |
| **KECL** | Does not Comply |
| **IECSC** | Does not Comply |
| **ENCS** | 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**

| | |
|---|---|
| **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 contains the following Proposition 65 chemicals:

| Chemical Name | CAS-No | California Prop. 65 |
|---|---|---|
| 2,2'-Iminodiethanol | 111-42-2 | Carcinogen |

## 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**
E Corrosive material

**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** 3 | **Flammability** 1 | **Instability** 0 | **Physical and chemical hazards** - |
| **HMIS** | **Health Hazard** 3 | **Flammability** 1 | **Physical Hazard** 0 | **Personal protection** X |

**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

**Issuing Date:** 06-21-2015
**Revision Date:** 01-13-2015
**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.**

**end**