

## Safety Data Sheet

### Section 1: Identification

**Product Identifier/Name** EDM Microfine 49

**Product code** ▪ 10287

**Relevant identified uses of the substance or mixture and uses advised against**

**Recommended use** ▪ Dielectric machining fluid

**Restrictions on use** ▪ For intended industrial use only

**HMIRA Registration No.** ▪ 11281

**HMIRA Registration Date** ▪ 2017-05-04

**Details of the supplier of the safety data sheet**

**Manufacturer** ▪ Commonwealth Oil Corporation, A Houghton Company  
2080 Ferriss Rd N., P.O. Box 370  
Harrow, Ontario, NOR 1G0  
Canada  
[www.houghtonintl.com/](http://www.houghtonintl.com/) [www.commonwealthoil.com](http://www.commonwealthoil.com)

**Telephone (General)** ▪ (519) 738-3503

**Emergency telephone number** ▪ CANUTEC (613) 996-6666 Collect 24 hr

### Section 2: Hazard Identification

#### Classification of the substance or mixture

In accordance with 29 CFR 1910.1200 OSHA HCS 2012 and the Canadian Hazardous Products Regulations and WHIMIS 2015

Aspiration hazard Category 1

#### Label elements

**Signal word** DANGER

**Hazard symbol**



**Hazard statements** May be fatal if swallowed or enters airways

#### Precautionary statements

**Prevention** ▪ Not applicable

**Response** ▪ IF SWALLOWED: Immediately call a POISON CENTER or physician

▪ Do NOT induce vomiting

**Disposal** ▪ Dispose of contents and container in accordance with local and national regulations

**Hazards not otherwise classified** ▪ Defatting to the skin

### Section 3: Composition/Information on Ingredients

**Substances** ▪ Mixture

#### Mixtures

#### Hazardous Components

Chemical Name	%(Wt.)	CAS #
Petroleum hydrocarbon #1	75 - 90	Proprietary
Petroleum hydrocarbon #2	10 - 25	Proprietary

## Section 4: First-Aid Measures

### Description of first aid measures

- Inhalation**
- Skin**
  - Move victim to fresh air if adverse effects are observed.
- Eye**
  - IF ON SKIN: Wash skin with soap and water. Remove contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.
  - 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.
- Ingestion**
  - Do NOT induce vomiting. Seek medical attention.

### Most important symptoms and effects

- Acute**
  - Defatting to the skin. May cause skin dryness and irritation.
- Delayed**
  - Prolonged/repeated exposure may cause skin irritation in susceptible individuals.

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

- Note to Physician**
  - All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5: Fire-Fighting Measures

### Extinguishing media

- Suitable Extinguishing Media**
  - Regular foam, carbon dioxide, dry chemical.
- Unsuitable Extinguishing Media**
  - Avoid the use of water jet, as this may spread the fire.

### Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
  - No unusual hazard noted. Treat as oil fire.
- Hazardous Combustion Products**
  - Smoke, soot, fumes or vapors, oxides of carbon.
- Special Protective Equipment and Precautions for Firefighters**
  - Structural firefighters' protective clothing will only provide limited protection. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Wear positive pressure self-contained breathing apparatus (SCBA). Water spray may be used to cool containers exposed to fire.

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
  - Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material.
- Environmental precautions**
  - Avoid run off to waterways and sewers.

### Methods and material for containment and cleaning up

- Containment/Clean-up Measures**
  - Recover free liquid for recycle or disposal. Add absorbent to spill area. LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

## Section 7: Handling and Storage

### Precautions for safe handling

#### Handling

- Do not mix or store with strong oxidants.
- Empty container contains product residue which may exhibit hazards of product.

### Conditions for safe storage, including any incompatibilities

#### Storage

- Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep away from open flame.
- Keep product from freezing. (Product will freeze at 4°C/39°F)

### Incompatible Materials

### General Industrial Hygiene

### Considerations

- Strong oxidizing agents.
- Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating or drinking. Safety shower and eye wash should be available close to work station.

### Environmental Exposure

### Controls

- Follow best practice for site management and disposal of waste. Avoid release to the environment.

## Section 8: Exposure Controls/Personal Protection

### Exposure Controls

#### PEL/TLV

Ingredient	OSHA (PEL)	ACGIH (TLV)	Other
None			

#### Engineering

#### Measures/Controls

- Use adequate mechanical (general) ventilation or local exhaust as needed to control concentration of airborne contaminants below applicable exposure limit values.

### Personal Protective Equipment

#### Pictograms



#### Respiratory

- Not necessary under conditions of normal use. In case of insufficient ventilation, wear suitable respiratory equipment if exposure limits are exceeded.

#### Eye/Face

- Wear safety goggles.

#### Hands

- Wear protective gloves- neoprene, butyl or nitrile rubber with cuffs.

#### Skin/Body

- Where extensive dermal exposure may be expected, either a chemical suit or chemical apron will be needed.

## Section 9: Physical and Chemical Properties

### Information on physical and chemical properties

Appearance	Clear water white or pale yellow liquid
Odor	Mild
Odor Threshold	Not Determined
pH	None
Melting Point/Freezing Point	4°C (39°F)

<b>Boiling Point Range</b>	Not Available
<b>Flash Point</b>	> 100°C (212°F) Cleveland Open Cup
<b>Evaporation Rate</b>	(N-butyl acetate = 1) < 0.1
<b>Flammability Limits</b>	Upper explosion limit: 4.7% volume, lower explosion limit: 0.5%
<b>Vapor Pressure</b>	< 0.1mm Hg @ 20°C (68°F)
<b>Vapor Density (Air=1)</b>	> 1.0 (Air=1)
<b>Specific Gravity/Relative</b>	0.720 @ 16°C, 61°F
<b>Solubilities</b>	Insoluble in water
<b>Octanol/Water Partition coefficient</b>	Not Determined
<b>Auto ignition temperature</b>	Not Determined
<b>Decomposition temperature</b>	Not Determined
<b>Viscosity</b>	2.4 cSt @ 40°C, 104°F

## Section 10: Stability and Reactivity

<b>Reactivity</b>	<ul style="list-style-type: none"> <li>No dangerous reaction known under conditions of normal use.</li> </ul>
<b>Chemical stability</b>	<ul style="list-style-type: none"> <li>Stable under normal temperatures and pressures.</li> </ul>
<b>Possibility of hazardous reaction</b>	<ul style="list-style-type: none"> <li>Not determined</li> </ul>
<b>Conditions to avoid</b>	<ul style="list-style-type: none"> <li>Not determined</li> </ul>
<b>Incompatible materials</b>	<ul style="list-style-type: none"> <li>Do not mix with strong oxidants.</li> </ul>
<b>Hazardous decomposition products</b>	<ul style="list-style-type: none"> <li>None known under normal use.</li> </ul>

## Section 11: Toxicological Information

### Information on the likely routes of exposure; symptoms; and acute, delayed and chronic effects

<b>Inhalation</b>	<ul style="list-style-type: none"> <li>Overexposure to mists or vapors may irritate respiratory tract. May be fatal if swallowed and enters airways.</li> </ul>
<b>Aspiration Hazard</b>	<ul style="list-style-type: none"> <li>If swallowed can be aspirated into the lungs and cause chemical pneumonia, varying degrees of pulmonary injury or death.</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>Ingestion of concentrate may cause gastrointestinal irritation. Do not induce vomiting. Vomiting may increase risk of product aspiration.</li> </ul>
<b>Eye</b>	<ul style="list-style-type: none"> <li>Direct contact with concentrate may cause eye irritation based on component information.</li> </ul>
<b>Skin corrosion/irritation</b>	<ul style="list-style-type: none"> <li>Prolonged/repeated exposure to concentrate may cause skin irritation in some individuals.</li> </ul>

### Numerical measures of toxicity

<b>Acute toxicity</b>	Not classified
<b>Skin corrosion/irritation</b>	Not classified
<b>Serious eye damage/irritation</b>	Not classified
<b>Respiratory or skin sensitization</b>	Not classified
<b>Germ cell mutagenicity</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive toxicity</b>	Not classified
<b>STOT-single exposure</b>	Not classified
<b>STOT-repeated exposure</b>	Not classified
<b>Aspiration hazard</b>	This product is classified as an Aspiration hazard, Category 1.



## Section 15: Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture Global Chemical Inventories

USA	All components of this material are on the US TSCA Inventory or are exempt.
Other TSCA Reg.	None.
Australia	Not determined.
Canada	All ingredients listed on DSL
China	Not determined.
EU	Not determined.
Japan	Not determined.
Korea	Not determined.
New Zealand	Not determined.
Switzerland	Not determined.

### Other U.S. Federal Regulations

#### SARA Ext. Haz. Subst.

- This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

#### SARA Section 313

- This product does not contain greater than 1.0% (> 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

#### SARA 311 Classifications

Acute Hazard	Yes
Chronic Hazard	No
Fire Hazard	No
Reactivity Hazard	No

#### CERCLA Hazardous Substances

- None known.

#### FDA Approval

- Not Applicable.

#### State Regulations

##### Cal. Prop. 65

- This product does not contain any Proposition 65 chemicals.

## Section 16: Other Information

#### HMIS Ratings

Health	1
Flammability	1
Physical	0
Personal Protection	B

#### NFPA Ratings

Health	1
Flammability	1
Reactivity	0

## Acronyms/Abbreviations

- **NTP**- National Toxicology Program Report on Carcinogens (latest edition)
- **IARC**- International Agency for the Research on Cancer
- **TSCA**- Toxic Substance Control Agency

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