

Section 1: Identification

Product Identifier/Name EDM 185
Product code ▪ 10236
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
Details of the supplier of the safety data sheet
Manufacturer ▪ Commonwealth Oil Company
 2080 Ferriss Rd N., P.O. Box 370
 Harrow, Ontario, N0R 1G0
 Canada
 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 WHIMIS 2015 and Mexico Standard NOM-018-STPS-2015.

Flammable liquid Category 4
 Aspiration hazard Category 1

Label elements

Signal word

DANGER

Hazard symbol



Hazard statements H227 Combustible liquid
 H304 May be fatal if swallowed or enters airways

Precautionary statements

Prevention P210 ▪ Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking.
 P280.3 ▪ Wear protective gloves and eye/face protection
Response P301+P310 ▪ IF SWALLOWED: Immediately call a POISON CENTER or physician
 P331 ▪ Do NOT induce vomiting
 P370+P378 ▪ In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish
Storage P403 ▪ Store in a well ventilated place. Keep cool
Disposal P501 ▪ Dispose of contents and container in accordance with local and national regulations
Hazards not otherwise classified ▪ Material can accumulate static charges which may cause an ignition. Material can release vapors that readily form flammable mixtures. Vapor accumulation could flash or explode if ignited.

Section 3: Composition/Information on Ingredients

Substances

- Mixture

Mixtures

Hazardous Components

Chemical Name	%(Wt.)	CAS #
Distillates (petroleum), hydrotreated light (or Petroleum hydrocarbon with viscosity less than 20.5 cSt @ 40°C)	100	64742-47-8

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- Move victim to fresh air if adverse effects are observed.
- For those providing assistance, avoid exposure to yourself or others.
- Use adequate respiratory protection.
- If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance.
- If breathing has stopped, assist ventilation with a mechanical device or use mouth to mouth resuscitation.

Skin

- IF ON SKIN: Wash skin with soap and water. Remove contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

Eye

- 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

- 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

- Water fog, foam, carbon dioxide, dry chemical.

Unsuitable Extinguishing Media

- Avoid the use of water jet, as this may spread the fire.

Media

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Combustible. Vapors are flammable and heavier than air. Vapors may travel across the ground.

Hazards

Hazardous Combustion Products

- Smoke, soot, fumes or vapors, oxides of carbon.

Special Protective Equipment and Precautions for Firefighters

- Evacuate area. Prevent run off from fire control or dilution from entering waterways.

- 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

Notification

- In event of a major spill or accidental release notify relevant authorities in accordance with all applicable regulations.

Personal Precautions

- Avoid contact with spilled material.
- For emergency responders: Respiratory protection: half face or full face respirator with filter(s) for organic vapor or SCBA can be used.
- Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up

- Eliminate all ignition sources. All equipment used when handling product must be grounded. Use non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible materials and transfer to containers.

Measures

- Recover free liquid for recycle or disposal.
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

Section 7: Handling and Storage

Precautions for safe handling

Handling

- Material can accumulate static charges which may cause an electric spark (ignition source). Use proper bonding and/or grounding procedures.
- 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. Storage containers should be grounded and bonded.

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	Value type	Control parameters	
Distillates (Petroleum), hydrotreated light	TWA (Mist)	<5mg/m ³	OSHA Z-1
	TWA	200 mg/m ³ (vapor)	ACGIH

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 liquid
Odor	Mild
Odor Threshold	Not Determined
pH	None
Melting Point/Freezing Point	Not Determined
Boiling Point Range	200 - 250°C, 392 - 482°F
Flash Point	> 82°C (180°F) Cleveland Open Cup
Evaporation Rate	0.1 (n-butyl acetate = 1)
Flammability Limits	Upper explosion limit: 5.0% volume, lower explosion limit: 0.6%
Vapor Pressure	0.023 kPa (0.17 mm Hg) at 20°C
Vapor Density (Air=1)	5.5 at 101 kPa
Specific Gravity/Relative Density	0.798 @ 16°C, 61°F
Density	6.66 lbs/gal
Solubilities	Insoluble in water
Octanol/Water Partition coefficient	Not Determined
Auto ignition temperature	251°C (484°F)
Decomposition temperature	Not Determined
Viscosity	2.2 cSt @ 40°C, 104°F

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reaction

- Not determined

Conditions to avoid

- Avoid heat, sparks, open flames and other ignition sources.

Incompatible materials

- Do not mix with strong oxidants.

Hazardous decomposition products

- None known under normal use.

Section 11: Toxicological Information

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

- Inhalation**
- Overexposure to mists or vapors may irritate respiratory tract. May be fatal if swallowed and enters airways.
- Aspiration Hazard**
- If swallowed can be aspirated into the lungs and cause chemical pneumonia, varying degrees of pulmonary injury or death.
- Ingestion**
- Ingestion of concentrate may cause gastrointestinal irritation. Do not induce vomiting. Vomiting may increase risk of product aspiration.
- Eye**
- Direct contact with concentrate may cause mild eye irritation based on component information.
- Skin corrosion/irritation**
- Prolonged/repeated exposure to concentrate may cause skin irritation in some individuals.

Numerical measures of toxicity

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

- Carcinogenicity**
- Not listed in NTP, OSHA, or IARC monographs.

Additional Information

- Practical experience has not demonstrated any adverse effects with normal use dilutions of this product.
- Contains petroleum oil, which if misted in excess at exposure limits may cause respiratory irritation, coughing, and extreme overexposure may cause oil pneumonitis.

Section 12: Ecological Information

- Toxicity**
- Not determined.
- Persistence and degradability**
- Not determined.
- Bioaccumulative potential**
- Not determined.
- Mobility in Soil**
- Not determined.
- Other adverse effects**
- Oil spills are generally hazardous to the environment.

Section 13: Disposal Considerations

Waste treatment methods

- Product waste**
- Do not discard into any sewers, on the ground, or any body of water.
 - Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

- This product, as manufactured in its present state, is not considered to be a hazardous waste according to 40CFR 261.4(b)(4). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This product should be recycled if possible, otherwise it should be disposed of in accordance with all applicable federal, state, and local regulations.
- Contaminated containers should be offered for professional cleaning before reuse
- Dispose of spent container in accordance with local, regional, national, and/or international regulations.

Contaminated containers or packaging

Section 14: Transport Information

- | | |
|-------------------------------------|--|
| UN Number | ▪ Not regulated for transport. |
| UN Proper Shipping Name | ▪ Not applicable |
| Transport Hazard Class(es) | ▪ Not applicable |
| Packing Group | ▪ Not applicable |
| Environmental Hazards | ▪ Not determined |
| Transport in Bulk | <ul style="list-style-type: none"> ▪ Not regulated ▪ Land (TDG) Canada - Not regulated for Land transport. ▪ Sea (IMDG) - Not regulated for Sea Transport according to IMDG-Code ▪ Marine pollutant - NO |
| Special Precautions for user | ▪ None specified |

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.	Oil mist, mineral
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 311/312 Classifications

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

CERCLA Hazardous Substances

- None known.

FDA Approval

- Not Applicable.

State Regulations**Cal. Prop. 65**

- This product may contain chemicals known by the State of California to cause cancer and/or birth defects. However, we do not routinely analyze products for impurities which may be such chemicals.

Section 16: Other Information**HMIS Ratings**

Health	1
Flammability	2
Physical	0
Personal Protection	B

NFPA Ratings

Health	1
Flammability	2
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

Last Revision Date: 8/26/2016

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.