## Section 1: Identification

**Product Identifier/Name**  
EDM RAM Cleaner

**Product code**  
▪ 10239

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

**Recommended use**  
▪ Cleaning fluid for EDM Machines and Sumps

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

**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, N0R 1G0  
  Canada  
  www.houghtonintl.com/ 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**


- Flammable liquid Category 4
- Aspiration hazard Category 1
- Serious Eye Damage / Irritation Category 2A

**Label elements**

**Signal word**  
DANGER

**Hazard symbol**  

**Hazard statements**

- H227 Combustible liquid
- H304 May be fatal if swallowed or enters airways
- H319 Causes serious eye irritation

**Precautionary statements**

**Prevention**
- P210 ▪ Keep away from flames and hot surfaces -- No smoking.
- P280.3 ▪ Wear protective gloves and eye/face protection.
- P264 ▪ Wash hands thoroughly after handling.

**Response**
- P301+P310 ▪ IF SWALLOWED: Immediately call a POISON CENTER or physician.
- P305+P351+P338 ▪ IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 ▪ If eye irritation persists: Get medical advice/attention.
- P331 ▪ Do NOT induce vomiting
- P370+P378 ▪ In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish
Section 3: Composition/Information on Ingredients

Substances
- Mixture

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>% (Wt.)</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum hydrocarbon with viscosity less than 20.5 cSt @ 40°C</td>
<td>100</td>
<td>Mixture</td>
</tr>
<tr>
<td>Polyethylene glycol octylphenyl ether</td>
<td>5 to 10</td>
<td>9036-19-5</td>
</tr>
</tbody>
</table>

Actual concentration is withheld as a trade secret.

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

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

Products

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.
- 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
- Strong oxidizing agents.

General Industrial Hygiene Considerations
- 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
▪ 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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Limit/Standard - RCP-TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (Petroleum), hydrotreated light</td>
<td>184 ppm  1200 mg/m3 Exxon Mobil</td>
</tr>
</tbody>
</table>

Engineering
▪ 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
189 - 210°C, 372 - 410°F

Flash Point
> 64°C (157°F) Cleveland Open Cup

Evaporation Rate
0.06 (n-butyl acetate = 1)

Flammability Limits
Upper explosion limit: 5.3% volume, lower explosion limit: 0.7%

Vapor Pressure
0.039 kPa (0.29 mm Hg) at 20°C

Vapor Density (Air=1)
5.5 at 101 kPa

Specific Gravity/Relative Density
0.800 @ 16°C, 61°F

Density
6.676 lbs/gal

Solubilities
Insoluble in water

Octanol/Water Partition coefficient
Not Determined

Auto ignition temperature
225°C (437°F)

Decomposition temperature
Not Determined

Viscosity
1.4 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>5 to 10% of this mixture is classified as a Category 2A eye irritant</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>This product is classified as an Aspiration hazard, Category 1.</td>
</tr>
</tbody>
</table>

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
▪ Contaminated containers should be offered for professional cleaning before reuse.

or packaging
▪ Dispose of spent container in accordance with local, regional, national, and/or international regulations.

Section 14: Transport Information

UN Number
▪ 1268.

UN Proper Shipping Name
▪ PETROLEUM DISTILLATES, N.O.S. COMBUSTIBLE LIQUID

Transport Hazard Class(es)
▪ Class 3 COMBUSTIBLE LIQUID

Packing Group
▪ III

ERG Number
▪ 128

Labels
▪ None

Transport in Bulk
▪ Land (DOT) - This material is not regulated under 49 CFR in a container of 119 gallon capacity or less when transported solely by land, as long as the material is not hazardous waste, a marine pollutant, or specifically listed as a hazardous substance.
▪ 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

<table>
<thead>
<tr>
<th></th>
<th>USA</th>
<th>Other TSCA Reg.</th>
<th>Australia</th>
<th>Canada</th>
<th>China</th>
<th>EU</th>
<th>Japan</th>
<th>Korea</th>
<th>New Zealand</th>
<th>Switzerland</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All components of this material are on the US TSCA Inventory or</td>
<td>Oil mist, mineral</td>
<td>Not</td>
<td>All ingredients listed on DSL</td>
<td>Not</td>
<td>Not determined.</td>
<td>Not</td>
<td>Not determined.</td>
<td>Not</td>
<td>Not</td>
</tr>
<tr>
<td></td>
<td>are exempt.</td>
<td></td>
<td>determined.</td>
<td></td>
<td>determined.</td>
<td></td>
<td>determined.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>Acute Hazard</th>
<th>Chronic Hazard</th>
<th>Fire Hazard</th>
<th>Reactivity Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

CERCLA Hazardous

Substances  • None known.

FDA Approval  • Not Applicable.

State Regulations

Cal. Prop. 65  • This product contains a chemical(s) known to the State of California to cause cancer and/or birth defects or other reproductive harm.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>California Prop 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene oxide</td>
<td>75-21-8</td>
<td>Carcinogen, developmental</td>
</tr>
<tr>
<td>1,4-Dioxane</td>
<td>123-91-1</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

Section 16: Other Information

HMIS Ratings

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1*</td>
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</tr>
<tr>
<td>Flammability</td>
<td>2</td>
<td></td>
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<tr>
<td>Physical</td>
<td>0</td>
<td></td>
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<tr>
<td>Personal Protection</td>
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</table>
NFPA Ratings

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
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<tr>
<td>Health</td>
<td>1</td>
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<tr>
<td>Flammability</td>
<td>2</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

Acronyms/Abbreviations

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

Revision Date: 8/15/2018
Previous Revision Date: 5/10/2018

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