



Product Name .....: Dielectric Oil

---

**Section 3 – Composition / Information On Ingredients**

---

<u>Component:</u>	<u>CAS #</u>	<u>% By Weight</u>
Petroleum Distillates, Solvent Dewaxed Light Paraffinic	64742-56-9	99-99.997%
Benzenamine, N-phenyl-, styrenated	68442-68-2	< 0.003%
Diphenylamine	122-39-4	< 0.00003%

---

**Section 4 – First Aid Measures**

---

**INHALATION**

Moved exposed person to fresh air. Get medical attention if irritation develops.

**SKIN CONTACT**

In case of contact, flush skin with plenty of soap and water while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

**EYE CONTACT**

Check for and remove any contact lenses. Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Get medical attention if irritation develops.

**INGESTION**

DO NOT INDUCE VOMITING. Get medical attention immediately.

**SYMPTOMS (ACUTE AND DELAYED)**

May be fatal if swallowed and enters airways.

**NOTES TO PHYSICIAN**

No specific treatment. Treat symptomatically. Contact treatment specialist immediately if large quantities have been ingested or inhaled.

Product Name .....: Dielectric Oil

---

---

### **Section 5 – Fire Fighting Measures**

---

#### **SUITABLE EXTINGUISH MEDIA**

Use dry chemical, CO<sub>2</sub>, water spray (FOG), or foam

#### **UNSUITABLE EXTINGUISH MEDIA**

Avoid solid water stream as it may scatter and spread fire.

#### **SPECIFIC HAZARDS ARISING FROM CHEMICAL**

Elevated temperatures can lead to the formation of irritating fumes and vapors. Decomposing products may include the following materials: Carbon dioxide and Carbon monoxide.

#### **PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

---

### **Section 6 – Accidental Release Measures**

---

#### **PERSONAL PRECAUTIONS**

Put on appropriate personal protective equipment.

#### **ENVIRONMENTAL PRECAUTIONS**

Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

#### **METHODS FOR CONTAINMENT**

Stop leak if without risk.

#### **METHODS FOR CLEANUP**

Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled container

Product Name .....: Dielectric Oil

---

---

### **Section 7 – Handling And Storage**

---

#### **HANDLING PROCEDURES**

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist.

#### **SHIPPING AND STORING PROCEDURES**

Keep container tightly closed in a dry place. Keep away from heat. Protect from light. Keep in properly labeled containers. Keep out of the reach of children.

INCOMPATIBILITIES: Oxidizing Agents

---

### **Section 8 – Exposure Controls / Personal Protection**

---

#### **ENGINEERING CONTROLS**

Material should be handled in enclosed vessels and equipment only if aerosolized and/or misted . Use only in adequate ventilation if this occurs. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **EYE/FACE PROTECTION**

Safety glasses and face shield.

#### **SKIN PROTECTION**

Normal work gloves are appropriate.

#### **RESPIRATORY PROTECTION**

No special requirements under ordinary conditions of use and with adequate ventilation.

#### **GENERAL HYGIENE**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing.

Product Name .....: Dielectric Oil

---

**Section 9 – Physical And Chemical Properties**

---

**GENERAL INFORMATION**

<b>Color</b>	Light Yellow
<b>Physical State</b>	Liquid
<b>Odor</b>	Petroleum Oil

**IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION**

<b>Relative Density (lbs/gal)</b>	7.07
<b>Vapor Density (air = 1)</b>	Not Available
<b>Vapor Pressure (mmHg)</b>	0
<b>pH</b>	Not Available
<b>Melting/Freezing Point (°F)</b>	Not Available
<b>Initial Boiling Point (°F)</b>	> 530
<b>Boiling Range (°F)</b>	Not Available
<b>Flash Point (°F)</b>	370
<b>Evaporation Rate</b>	Not Available
<b>Flammability</b>	Not Available
<b>Upper/Lower Flammability Limits</b>	Not Available
<b>Partition Coefficient: n-octanol/water</b>	3.3 to > 6
<b>Solubility In Water</b>	Insoluble
<b>Auto-Ignition Temperature (°F)</b>	Not Available
<b>Decomposition Temperature (°F)</b>	Not Available
<b>Viscosity (40°C) mm<sup>2</sup>/s</b>	9.29

---

**Section 10 – Stability And Reactivity**

---

REACTIVITY: Polymerization will not occur

CHEMICAL STABILITY: Stable under normal conditions

HAZARDOUS REACTIONS: None, under normal processing

CONDITIONS TO AVOID: High temperatures, flames, sparks

INCOMPATIBILITY: Strong acids and oxidizing materials

HAZARDOUS DECOMPOSITION PRODUCTS: Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion

Product Name .....: Dielectric Oil

---

---

### Section 11 – Toxicological Information

---

#### ACUTE EXPOSURE

**Respiratory Irritation:**

Not expected to pose respiratory irritation. An inhalation hazard may only arise if product is aerosolized or if heated up. If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and upper respiratory tract. Based on data from similar materials.

**Eye Irritation:**

Not expected to cause irritation under normal use.

**Skin Irritation:**

Not expected to cause irritation under normal use.

**Sensitization:**

Not expected to cause skin or respiratory sensitization.

**Aspiration Hazards:**

If swallowed can be aspirated into lungs and cause chemical pneumonia, varying degrees of pulmonary injury or death. If swallowed, do NOT induce vomiting.

#### CHRONIC EXPOSURE

**Target Organ Effects:**

No data available to indicate product or components at greater than 1% are chronic health hazards.

**Carcinogenicity:**

This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

**Mutagenicity:**

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Reproductive Toxicity:**

No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.

Product Name .....: Dielectric Oil

---

**Teratogenicity:**

No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

**ANALYSIS – LD50 / LC50**

Inhalation LC50 Rat	>5 mg/L (4HR)
Oral LD50 Rat	>5000 mg/kg
Dermal LD50 Rabbit	>5000 mg/kg

---

**Section 12 – Ecological Information**

---

**COMPONENT ANALYSIS- ECOTOXICITY – AQUATIC LIFE**

Duration/Test/Species	Concentration/Conditions
96 hr LL50 <i>Oncorhynchus mykiss</i>	>1000 mg/L
96 hr EL50 <i>Scenedesmus subspicatus</i>	>1000 mg/L
21 Day WAF <i>Daphnia magna</i>	>50% mg/L

**PERSISTENCE & DEGRADABILITY:** Inherently biodegradable**BIOACCUMULATION POTENTIAL:** Not Available**SOIL MOBILITY:** Not Available**OTHER ADVERSE EFFECTS:** Not Available

---

**Section 13 – Disposal Consideration**

---

**DISPOSAL INSTRUCTIONS**

The generation of waste should be avoided or minimized wherever possible. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Product Name .....: Dielectric Oil

---

---

### Section 14 – Transportation Information

---

EMERGENCY RESPONSE GUIDE NO. 171 North American Emergency Response Guide Book

U.S. DOT: Not Regulated

IATA Not: Regulated

IMDG: Not Regulated

---

### Section 15 – Regulatory Information

---

#### SARA EXTREMELY HAZARDOUS SUBSTANCES (SECTIONS 302 & 304)

This product does not contain greater than 1% of any “extremely hazardous substances” listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

#### SARA SECTION 313

This product does not contain greater than 1.0% of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### SARA SECTION 311 & 312 CLASSIFICATIONS

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

#### CERCLA

This product does not contain any “hazardous substances” listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

#### CALIFORNIA PROP 65

This product is not routinely tested to determine chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum impurity levels of components.

Product Name .....: Dielectric Oil

---

## GLOBAL CHEMICAL INVENTORIES

US TSCA	Listed
EU	Listed
Japan	Not available
Australia	Listed
New Zealand	Not available
Canada	Listed
Switzerland	Not available
Korea	Listed
Philippines	Listed
China	Not available
Taiwan	Not available

---

**Section 16 – Other Information**

---

Prepared by: ..... Ridge Tool Company

Issue Date: ..... May 29, 2015

Last Revision Date: ..... May 29, 2015

RIDGE TOOL BELIEVES THE STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE RELIABLE BUT THEY ARE GIVEN WITHOUT WARRANTY OR GUARANTEE OF ANY KIND, EXPRESSED OR IMPLIED, AND WE ASSUME NO RESPONSIBILITY FOR ANY LOSS, DAMAGE OR EXPENSE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THEIR USE.