**R. P. Cargille Laboratories, Inc.**

55 Commerce Road • Cedar Grove, New Jersey • 07009-1289 USA

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**Catalog #16482 ~ Type A; #16484 ~ Type B**

**IDENTITY (As Used on Label and Manuf. Literature)**

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

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**Section 1**

**Manufacturer’s Name**

R.P. Cargille Laboratories, Inc.

**Address (Number, Street, City, State, and ZIP Code)**

55 Commerce Rd. Cedar Grove, NJ 07009

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The information supplied is based on data available to us and is believed to be correct. However, no guarantee or warranty of kind expressed or implied, is made with respect to the information presented and Cargille Laboratories assumes no responsibility for the results of the use of this product. This information is furnished upon the condition that the person responsible for its use shall bear his own determination of the suitability of the material for his or her particular purpose.

Conditions of Intended and Normal Use: (abbr. C.I.U.) As a Microscope Immersion Oil at normal room pressure (760 mm Hg), temperature 39°F to 104°F in a non misted / non airborne state in a room having normal air changes, (2)/Hr., in a trained and supervised laboratory/industrial setting using standard GL/GM Procedures. SEE SECTIONS 7 and 8.

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**Section 2 - Hazardous Ingredients**

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>(Common Name(s))</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
<th>Recommended</th>
<th>% (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Secret</td>
<td>Hydrogenated Terphenyl</td>
<td>N.E.</td>
<td>500/cubic meter a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Terphenyl</td>
<td>500/cubic meter a</td>
<td>500/cubic meter a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Natural Hydrocarbons</td>
<td>500/cubic meter a</td>
<td>500/cubic meter a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Polybutenes</td>
<td>500/cubic meter a</td>
<td>500/cubic meter a</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*PEL Ceilings & TLV T.W.A.’s if any should not occur if C.I.U. and Sections 7 & 8 followed.*

**NOTE:** Product normally sold in 1/4 oz. to 1 gallon quantities. Used in single drop to a few cubic centimeters per application. See requisitioner for specific quantities involved.

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**Section 3 - Physical/Chemical Characteristics**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point (760 mm Hg.)</td>
<td>340°C</td>
</tr>
<tr>
<td>Specific Gravity (H2O = 1)Temp. 23°C/73°F</td>
<td>0.8644°F</td>
</tr>
<tr>
<td>Vapor Pressure in mm Hg. at Temperature</td>
<td>73°F</td>
</tr>
<tr>
<td>Melting Point</td>
<td>&lt; 32°F</td>
</tr>
<tr>
<td>Vapor Density (AIR = 1) at mm Hg. &amp; Temp</td>
<td>760</td>
</tr>
<tr>
<td>Evaporation Rate at (760 mm Hg. &amp; 23°C/73°F) (Mineral Oil = 1)</td>
<td>ca 1</td>
</tr>
<tr>
<td>Solubility in Water at (mm Hg. &amp; Temp)</td>
<td>760</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Light yellow, slight characteristic odor</td>
</tr>
</tbody>
</table>

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**Section 4 - Fire and Explosion Hazard Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point (Cup Method Used)</td>
<td>&gt; 325°F (163°C) C.O.C.</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>LEL</td>
</tr>
<tr>
<td>Non-Flammable Limits</td>
<td>N.D.P.</td>
</tr>
<tr>
<td>Upper Explosion Limit</td>
<td>N.D.F.</td>
</tr>
</tbody>
</table>

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**Extinguishing Media**

Carbon dioxide, foam, dry chemical or any Class B agent

**Special Fire Fighting Procedures**

None

**Unusual Fire and Explosion Hazards**

None

**Abbreviations:** N.A. = Not Applicable; N.D.P. = No Data Found; Tr.S. = Trade Secret; N.E. = Not Established; C.I.U. = Conditions of Intended Use; < = less than; > = greater than.
Section 5 - Reactivity Data

Stability | Unstable | | |
| Stable | No |

Incompatibility (Materials and/or Conditions to Avoid): Strong oxidizers, heat above 150°F

Hazardous Polymerization | May Occur | Conditions to Avoid
| Will Not Occur | X | None

Section 6 - Health Hazard Data

Route(s) of Entry:
Inhalation? | Skin? | Mucous Membranes/Eyes? | Ingestion?
| Yes | Slight | Slight | Possible

Health Hazards (Acute and Chronic): None known at C.I.U.

Carcinogenicity: NTP? | IARC Monographs? | OSHA Carcinogen?
| No | No | No

Signs and Symptoms of Exposure:
Oily feel, if liquid is misted or above 150°F (not a C.I.U.) headaches and nausea possible.

Medical Conditions Generally Aggravated by Exposure: N.D.E.

Emergency and First Aid Procedures: Include possible material that may have been mixed with liquid during use.
Inhalation - (Not likely at C.I.U.) If concern arises remove to fresh air.
Skin & Clothes - Prompt soap and water wash.
Eyes - Flush with water, slight temporary irritation possible (consult physician).
Ingestion - Low order of toxicity, First Aid normally not needed (consult physician).

Section 7 - Precautions for Safe Handling and Use - Follow C.I.U. See Section 1
Steps to Be Taken in Case Material is Released or Spilled:
Absorb, place in plastic container, cap or twist tie closure.

Waste Disposal Method:
All Chemical Disposal must be in accordance with current local, state, and federal regulations.
Treat as used instrument lubrication oil.

Precautions to Be Taken in Handling and Storing:
Store between 65°F and 90°F. (18°C and 32°C)

Other Precautions:
Avoid: continual direct sunlight, vaporizing or atomizing.

Section 8 - Control Measures: When used as intended (see section 1)
Respiratory Protection (Specify Type):
See "Ventilation"

Ventilation | Local Exhaust | Special | Mechanical (General) | Other | Normal Room Air Changes (2) / Hr.
| | None |

Protective Gloves:
If worn, polyethylene gloves are recommended.

Eye Protection:

Other Protective Clothing or Equipment:
W.A.

W.A. = Not mandatory except as good laboratory industrial practices.
Always use good hygienic work/practices as to housekeeping, personal hygiene, use of chemical lab apron
and splash goggles, avoidance of vapors, prolonged and repeated skin contact.

Special Precautions:
W.A.

Immersin Oil Types A & B, Code 1248