

# MATERIAL SAFETY DATA SHEET

## RESOLVE MICROSCOPE IMMERSION OIL

Manufactured by:  
Richard-Allan Scientific  
4481 Campus Drive  
Kalamazoo, MI 49008

CHEMTREC (800) 424-9300

(800) 522-7270 8.00 a.m. - 5.00 p.m. EST  
Everyday

24 hours

This information is furnished by Richard-Allan Scientific (RAS) without warranty, representation, inducement of license of any kind, except that it is accurate to the best of our knowledge, or obtained from sources believed by RAS to be accurate. RAS does not assume any legal responsibility for use or reliance upon same. Customers are encouraged to conduct their own tests. Before using any product, read its label. **Revised April 2002.**

### 1. SUBSTANCE IDENTIFICATION

SUBSTANCE: **RESOLVE MICROSCOPE IMMERSION OIL**

CATALOG NUMBER: M2000, M3000, M4000, M5000, M6000, M2004, M3004, M4004, M5004, M6004.

TRADE NAMES/SYNONYMS: Immersion oil

### 2. COMPOSITION AND INGREDIENTS INFORMATION

Hydrogenated Terphenyls	CAS# 61788-32-7
Terphenyls	CAS# 26140-60-3
Mineral Oil	CAS# 8042-47-5
Polybutane	CAS# 9003-29-6

### 3. HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): Health = 0      Fire = 1      Reactivity = 0

Potential Health Effects:

Inhalation: Not expected to be a health hazard.

Skin Contact: Not expected to be a health hazard.

Eye Contact: May cause irritation.

Ingestion : If large quantities are consumed, may cause vomiting or diarrhea.

#### 4. FIRST-AID PROCEDURES

**Inhalation:** N/A

**Skin Contact:** In case of skin contact, wash with soap and water.

**Eye Contact:** In case of eye contact, flush immediately with clear water for at least 20-25 minutes and contact a physician.

**Ingestion:** If very large amounts are swallowed induce vomiting and seek medical advice.

#### 5. FIREFIGHTING PROCEDURES

FIRE AND EXPLOSION HAZARD:

**FLASH POINT:** >300°F

**UPPER EXPLOSIVE LIMIT:** N/A

**LOWER EXPLOSIVE LIMIT:** N/A

**FIRE FIGHTING MEDIA:** Carbon dioxide, foam, dry chemical, and water fog.

**FIRE RESPONSE PROCEDURES:** Fire fighters must use self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Containers should be kept cool in the event of fire.

#### 6. ACCIDENTAL RELEASE PROCEDURES

**SMALL or LARGE SPILL:** Absorb with any medium suitable for oil. Wash area with detergent and water.

#### 7. HANDLING AND STORAGE

**General handling:** Store at controlled room temperature (15-30°C). Keep away from extreme heat and open flame. Empty containers contain residue, handle as if full containers.

#### 8. EXPOSURE CONTROL (PERSONAL PROTECTIVE EQUIPMENT)

**VENTILATION:** None required.

**RESPIRATOR:** None required.

**CLOTHING:** None required.

**GLOVES:** Gloves should be worn as good laboratory practice.

**EYE PROTECTION:** Safety glasses should be worn as good laboratory practice.

**EXPOSURE GUIDELINES:** None established.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**DESCRIPTION:** Clear, very slight yellow color, odorless  
**BOILING POINT:** N/A  
**FLASH POINT:** >300°F  
**acetate=1): 0.01 VAPOR PRESSURE:** <0.1  
Insoluble  
**VAPOR DENSITY (Air=1):** 5

**MELTING POINT:** N/A  
**SPECIFIC GRAVITY:** (H<sub>2</sub>O=1 @25°C) 0.92  
**EVAPORATION RATE (butyl SOLUBILITY IN WATER:**

## 10. STABILITY AND REACTIVITY INFORMATION

**REACTIVITY:** Immersion Oil is stable under normal conditions and temperatures.

**INCOMPATIBILITIES:** None, avoid extreme heat.

**DECOMPOSITION:** When heated to decomposition may emit irritating fumes.

**POLYMERIZATION:** Hazardous polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

Occupational exposure to this material has not been reported to cause significant adverse health effects.

## 12. ECOLOGICAL INFORMATION

No information available

## 13. DISPOSAL GUIDELINES

Ensure compliance with local, state and federal regulations.

## 14. TRANSPORT INFORMATION

DOT Shipping Name:., Non-hazardous material, Not regulated.

## 15. REGULATORY INFORMATION

### **SARA TITLE III (Superfund Amendment and Reauthorization Act)**

SECTION 302 AND 304: Extremely Hazardous Substance List (40 CFR 355)- Not Listed

SECTION 311: Hazard Categorization (40 CFR 370)- None

SECTION 313: Toxic Chemicals Listing (40 CFR 372.65)- Not Listed as a toxic chemical

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)**

SECTION 102(A) Hazardous Substances (40 CFR 302.4) - Not Listed

Reportable Quantity - N/A

SECTION 101(14) Reportable Quantity: N/A

**RCRA (Resource Conservation and Recovery Act.)**

40 CFR 261.21 Hazardous Waste Number: Not Listed

**NJ-RTK (New Jersey- State Right To Know)**

Environmental Hazardous Substance List: Not Listed

**16. OTHER INFORMATION:**

Resolve Microscope Immersion Oil, as manufactured by Richard-Alan Scientific, is intended for legal use in laboratories and manufacturing environments.