TED PELLA, INC.
Microscopy Products for Science and Industry

# Material Safety Data Sheet

**Product No. 18183 LR Gold Resin**
**Issue Date (02-22-96)**
**Review Date (05-24-12)**
MSDS Information provided by London Resin Co LTD, Issued 02-22-96, Reviewed 2010

## Section 1: Product and Company Identification

**Product Name: 18183 LR Gold Resin**
Synonym: None
**Company Name**
**Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477**
**Domestic Phone (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)**
**International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)**
**Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.**

## Section 2: Composition / Information on Ingredients

| **Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)** | **%** | **OSHA PEL mg/m3** | **ACGIH TLV mg/m3** | **NTP** | **IARC** | **OSHA regulated** |
|---|---|---|---|---|---|---|
| Polyhydroxy Diethoxylate Bisphenol-A dimethacrylate (24448-20-2) | 70-80 | ND | ND | ND | ND | ND |
| Methacrylic acid ester Dodecyl methacrylate (90551-76-1) | 20-30 | ND | ND | ND | ND | ND |
| N, N-dimethyl-p-toluidine (99-97-8) | 0.1 | ND | ND | ND | ND | ND |

## Section 3: Hazard Identification

**Emergency overview**
Appearance: Liquid, straw to colorless.
Immediate effects: Irritating to eyes and respiratory system. Resin based on resins used in dental fillings. The N, N-dimethyl-p-toluidine is referred to in NIOSH toxic substances directory. However, in the concentration used in the final resin mix little toxic hazard exists, especially since the concentrations are of the same order as those used in dental resins cured in the mouth.
The resin is of very low viscosity and designed to penetrate biological tissue being an

embedding resin. Hence care should be taken to minimize skin contact. This is especially true if there is a previous history of allergy to methacrylates.

**Potential health effects**

Primary Routes of entry: Ingestion, inhalation, skin and eye contact.
Signs and Symptoms of Overexposure: ND
Eyes: Irritates
Skin: May cause irritation and sensitization by skin contact.
Ingestion: Irritates and vomiting.
Inhalation: Irritation to cough
Chronic Exposure: Danger of skin sensitization.
Chemical Listed As Carcinogen Or Potential Carcinogen: ND
See Toxicological Information (Section11)

**Potential environmental effects**

See Ecological Information (Section 12)

---

**Section 4: First Aid Measures**

**If accidental overexposure is suspected**

Eye(s) Contact: Flood eyes thoroughly with water keeping eyelids apart for at least 10 minutes. See medical attention.
Skin Contact: Wash well with soap and plenty of water. Remove contaminated clothing and wash before reusing. Seek medical attention.
Inhalation: Remove from exposure to fresh air. Seek medical attention.
Ingestion: Wash out mouth with plenty of water. Do not induce vomiting. Seek medical attention.

**Note to physician**

Treatment: ND
Medical Conditions generally Aggravated by Exposure: ND

---

**Section 5: Fire Fighting Measures**

Flash Point: 105 °C
Flammable Limits: ND
Auto-ignition point: ND
Fire Extinguishing Media: Use extinguishing media suitable for surrounding fire.
Special Fire Fighting Procedures: ND
Unusual Fire and Explosion Hazards: ND
Hazardous combustion products: May evolve toxic fumes in fire or when heated.
DOT Class:

---

**Section 6: Accidental Release Measures**

Steps to be Taken in Case Material is Released or Spilled: Shut off sources of ignition. Adequately ventilate area, use personal protection clothing and breathing apparatus if a mist is released. Material may be slippery. Absorb on inert material (sand, diatomaceous earth, acid absorbent or sawdust) and place in container/lid for disposal.
Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

---

**Section 7: Handling and Storage**
Precautions to be taken in Handling and Storage: Use in fume hood. Keep away from sources of ignition. Keep containers closed. Good laboratory hygiene practices should be observed.
Storage temperature: Store in cool area.
Storage Pressure: NA

---

**Section 8: Exposure Controls / Personal Protection**
**Engineering Controls**
Ventilation required: Use in fume hood.
**Personal Protection Equipment**
Respiratory protection: Use respiratory protection where risk of high concentrations of vapors.
Protective gloves: Wear gloves. (Neoprene)
Skin protection: Wear protective clothing and/or apron and rubber boots as required.
Eye protection: Wear splash goggles or face shield.
Additional clothing and/or equipment: Eye wash station or shower.
**Exposure Guidelines**
See Composition/Information on Ingredients (Section2)

---

**Section 9 Physical and Chemical Properties**
Appearance and Physical State: Straw to colorless liquid.
Odor (threshold): Faint acrylic.
Specific Gravity ($H_2O$=1): Approximately 1.0
Vapor Pressure (mm Hg): ND
Vapor Density (air=1): 0.1 (20 °C)
Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1):
Boiling Point: <300 °C
Freezing point / melting point: ND
pH: ND
Solubility in Water: 4.0 mg/L
Molecular Weight: NA

---

**Section 10: Stability and Reactivity**
Stability: Stable (Uncatalyzed).
Conditions to Avoid: Bright light and heat.
Materials to Avoid (Incompatibility): Peroxides, reducing substances, heavy metal ions
Hazardous Decomposition Products: Oxides of carbon, acrid smoke and irritating fumes.
Hazardous Polymerization: May occur when catalyzed.

---

**Section 11: Toxicological Information**
Results of component toxicity test performed: Acute oral: Rat LD50 > 3000 mg/Kg.
Acute Percutaneous toxicity: > 3000 mg/Kg.
N, N-Dimethyl-p-toluidine: VAPOR (LC50): Acute: 1400 mg/m 4 hours [Rat].

Human experience: May cause sensitization.
This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

---

**Section 12: Ecological Information**
Ecological Information: Mobility: Dissolves slowly in water.
Persistence/Biodegradability: Is readily biodegradable. Not expected to Bioaccumulate.
Ecotoxicity: LD50 (golden ide (fish)) 48hr 193 mg/L. Harmful to aquatic organisms.
Chemical Fate Information: ND

---

**Section 13 Disposal Considerations**
RCRA 40 CFR 261 Classification: ND
Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

---

**Section 14: Transportation Information**
US DOT Information: Proper shipping name: Not regulated
Hazard Class: ND
Packaging group: ND
UN Number: ND
Limitations: ND
IATA: Proper shipping name: Not regulated
Hazard Class: ND
Packing group: ND
UN Number: ND
IMO: Proper shipping name: Not regulated
Class: ND
UN Number: ND
Packing group: ND
Marine Pollutant: No
Canadian TDG: Not regulated

---

**Section 15: Regulatory Information**
**United States Federal Regulations**
MSDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.
SARA: None of components listed.
SARA Title III: None of components listed.
RCRA: None of components listed.
TSCA: CASRN 24448-20-2: Listed. CASRN 90551-76-1: NIF. CASRN 99-97-8: Listed.
CERCLA: None of components listed.
**State Regulations**
California Proposition 65: None of components listed.
**International Regulations**
Canada WHMIS: ND
Europe EINECS Numbers: ND

**Section 16: Other Information**
Label Information: Irritant.
European Risk and Safety Phrases: R36/37/38. S16, S24, S26, S37
European symbols needed: Xi
Canadian WHMIS Symbols: ND
HMIS® Hazard Rating: Health: **ND**; Flammability: **ND**; Physical Hazard: **ND**; Personal Protection: **ND**
NFPA Hazard Rating: Health: **ND**; Flammability: **ND**; Instability: **ND**; Special Hazards; **ND**
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)
**Abbreviations used in this document**
NE= Not established
NA= Not applicable
NIF= No Information Found
ND= No Data

**Disclaimer**
Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.