



# TRIANGLE BIOMEDICAL SCIENCES, INC.

3014 CROASDAILE DRIVE • DURHAM, NORTH CAROLINA 27705-2507 • USA • 919.384.9393 • FAX 919.384.9595 • E-MAIL: tbs@trianglebiomedical.com

Date Issued: **February 3, 2011**

Supersedes Date: **November 20, 2008**

## MATERIAL SAFETY DATA SHEET

IDENTIFICATION AND EMERGENCY INFORMATION				
<b>Product Name</b>	Isoflex LDS 18 Special A			
<b>Product Code (Catalog Number)</b>	CUT-LUBE: Included in maintenance/lubrication microtome kit			
<b>Product Category (Chemical Name)</b>	Lubricating oil			
<b>Product Appearance and Odor</b>	Paste, yellowish, ester characteristic			
<b>Emergency Notification</b>	Chem-Tel 1-800-255-3924			
COMPONENTS AND HAZARD INFORMATION				
<b>Component</b>	<b>CAS No.</b>	<b>%</b>	<b>OSHA TWA</b>	<b>OSHA STEL</b>
Esteroil Mineral oil Lithium soap				
PHYSICAL DATA				
THE FOLLOWING DATA ARE APPROXIMATE OR TYPICAL VALUES AND SHOULD NOT BE USED FOR PRECISE DESIGN PURPOSES.				
<b>Boiling Range</b> NL	<b>Specific Gravity</b> 0.90 g/cm <sup>3</sup>	<b>Molecular Weight</b>	<b>Viscosity</b> NL	
<b>Percent Volatile by Volume</b> NL	<b>Vapor Pressure @20 C</b> degrees NL	<b>Vapor Density (Air = 1)</b> NL	<b>Pour, Congealing or Melting Point</b>	
<b>Solubility in Water @1 ATM and 25°C (77°F)</b> Insoluble	<b>Evaporation Rate @1 ATM and 25°C (77°F)</b> (n-Butyl Acetate =1) NL		<b>pH</b> NL	
FIRE AND EXPLOSION HAZARD INFORMATION				
<b>Flash Point (Minimum)</b> > 200 °C	<b>Autoignition Temperature</b> NL	<b>Test Mode</b> DIN ISO 2176	<b>LEL</b>	<b>UEL</b>
<b>Handling Precautions</b> No special precautions.				
<b>Flammable or Explosive Limits (Approximate Percent by Volume in Air)</b> NL				

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

**Extinguishing Media**Water spray, Foam, Dry powder, CO<sub>2</sub>**Fire Fighting Procedures**

Use water mist to cool closed containers.

**Decomposition Products Under Fire Condition**

Release of CO and hydrocarbons.

**“Empty” Container Warning**

No special label required

**Unusual Fire and Explosion Hazards**

Do not inhale fumes.

**HEALTH AND HAZARD INFORMATION****Variability Among Individuals****Signs and symptoms of overexposure**

NL

**Effects of Overexposure**

Continuous exposure to skin may cause irritation or dermatitis.

**Nature of Hazard and Toxicity Information**

NE

**Pre-existing Medical Conditions which may be Aggravated by Exposure**

NE

**Threshold Limit Value**

NL

**Health Hazards**

LD 50/oral/rat &gt; 2g/Kg.

**PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES****Eye Contact**

Rinse with plenty of water.

**Skin**

Wash off with soap and plenty of water.

**Inhalation**

NA

**Ingestion**

Do not induce vomiting. Obtain medical attention.

**SEEK MEDICAL TREATMENT IF DISCOMFORT PERSISTS.**

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

<b>REACTIVITY</b>		
<b>Stability</b>	<b>Incompatibility</b> Strong oxidizing agents	<b>Hazardous Decomposition Products</b> NE
<b>Conditions to Avoid</b>	<b>Hazardous Polymerization</b>	<b>Materials to Avoid</b> Strong oxidizing agents. Do not store with food.
<b>ENVIRONMENTAL INFORMATION</b>		
<b>Steps to be Taken in Case Material is Released or Spilled</b> Use mechanical equipment when handling. Do not flush water into sanitary sewer system.		
<b>Disposal</b> Dispose according to applicable regulations.		
<b>Protective Gear</b>		
<b>Precautions to be taken in handling and storage</b> Store at room temperature.		
<b>THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES.</b>		
<b>Reportable Quantity (RQ), EPA Regulation 40 CFR 302 (CERCLA Section 102)</b> NL		
<b>Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-304)</b> NL		
<b>Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313)</b> NL		
<b>Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312)</b> NL		
<b>PROTECTION AND PRECAUTIONS</b>		
<b>Ventilation</b> No special requirements.		
<b>Respiratory Protection</b> No special equipment.		
<b>Protective Gloves</b> No special equipment.		
<b>Eye Protection</b> No special equipment.		
<b>Other Protective Equipment</b>		

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

**TRANSPORTATION AND OSHA RELATED LABEL INFORMATION**

Transportation Incident Information

U.S. DOT Hazardous Materials Shipping Description

OSHA Required Label Information

**TRIANGLE BIOMEDICAL SCIENCES (TBS) provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgement in determining its appropriateness for a particular purpose. TBS makes no representation or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, TBS will not be responsible for damages resulting from the use of or reliance upon this information.**