

## BBC Biochemical

## MATERIAL SAFETY DATA SHEET

**Section 1. Chemical Product and Company Information**

Common Name:	HTF-513 Microtome Lubricating Oil	Code:	6675
Supplier:	BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	MSDS#:	6675
Synonym:	n/a	Validation Date:	08-20-12
Trade Name:	HTF-513 Microtome Lubricating Oil	Print Date:	08-20-12
Material Uses:	Microtome Lubricating Oil	Responsible Name:	Skye Mitchell
Manufacturer:	BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477	

**Section 2. Composition and Information on Ingredients**

Name	CAS#	% by Weight	Exposure Limits
1) Proprietary blend of non-hazardous oils and lubricants	n/a	% withheld as trade secret	Not available

**Section 3. Hazards Identification**

Physical State and Appearance	Clear to yellowish liquid.
Emergency Overview	Warning! May Cause adverse lung effects if high concentrations are inhaled. Do not breathe vapor or mist. Use only with adequate ventilation. Do not ingest. Avoid contact with eyes. Wash thoroughly after handling.
Routes of Entry	Eye contact, inhalation, ingestion, skin contact.
Potential Acute Health Effects	
Eyes	May cause irritation
Skin	May cause irritation. May be harmful in contact with skin.
Inhalation	Irritation to nose, throat and respiratory system.
Ingestion	May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Potential Chronic Health Effects	Not available.
Medical Conditions Aggravated by Overexposure	Not available.
Overexposure/Signs/Symptoms	Not available.

**Section 4. First Aid Measures**

Eye Contact	Immediately flush thoroughly with water for at least 15 minutes.
Skin Contact	Wash thoroughly with water. Remove contaminated clothing at once (launder before reuse); discard contaminated shoes.
Inhalation	Remove to fresh air; give artificial respiration if breathing has stopped.
Ingestion	If conscious, drink water. Do not induce vomiting, seek medical attention.
Notes to Physician	Treat symptomatically.

**Section 5. Fire Fighting Measures**

Flammability of the Product	Not available.
Auto-ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.

<b>Products of Combustion</b>	Not available.
<b>Fire Hazards in Presence Of Various Substances</b>	Not available.
<b>Explosion Hazards in Presence of Various Substances</b>	Thermal decomposition produces toxic fumes.
<b>Fire Fighting Media and Instructions</b>	CO <sub>2</sub> , foam, water. Wear self-contained breathing apparatus and protective clothing.
<b>Protective Clothing (Fire)</b>	
<b>Special Remarks on Fire Hazards</b>	
<b>Special Remarks on Explosion Hazards</b>	

### Section 6. Accidental Release Measures

<b>Small Spill and Leak</b>	Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under section VIII. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate it's source, if this can be done without risk. Take up and containerize for proper disposal as described under Waste Disposal Method. Comply with Federal, State and local regulations on reporting releases. Always contact a permitted waste disposer (TSD) to assure compliance with all current local, state and federal regulations.
<b>Large Spill and Leak</b>	Same as above.

### Section 7, Handling and Storage

<b>Handling</b>	Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing.
<b>Storage</b>	Keep container tightly closed. Store away from heat, sparks, open flame.

### Section 8. Exposure Controls / Personal Protection

<b>Engineering Controls</b>	
<b>Personal Protection</b>	
<b>Eyes</b>	Safety glasses with side shields must be worn at all times.
<b>Body</b>	Impervious protective clothing must be worn to prevent skin contact.
<b>Respiratory</b>	If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety supplier). Engineering and/or administrative controls should be implemented to reduce exposure. Material must be handled or transferred in an approved fume hood or with adequate ventilation.
<b>Hands</b>	Neoprene, nitrile or equivalent gloves.
<b>Feet</b>	Not available.
<b>Personal Protection in Case of a Large Spill</b>	Safety glasses with side shields, impervious protective clothing, respirator if necessary and neoprene, nitrile or equivalent gloves.
<b>Product Name</b>	<b>Exposure Limits</b>
1)Blend of oils and lubricants	Not available
<b>Consult Local authorities before acceptable exposure limits.</b>	

### Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Clear Yellowish liquid.	<b>Odor:</b>	characteristic
<b>Molecular Weight</b>	Not applicable	<b>Taste:</b>	Not available.
<b>Molecular Formula</b>	Not applicable	<b>Color:</b>	Clear to yellow.
<b>pH (1%/Water)</b>	Not applicable.		
<b>Boiling/Condensation Point</b>	Not applicable		
<b>Melting/Freezing Point</b>	Not available		
<b>Critical Temperature</b>	Not available		
<b>Specific Gravity</b>	Not available.		
<b>Vapor Pressure</b>	Not available.		
<b>Vapor Density</b>	Not applicable		
<b>Volatility</b>	Not applicable.		
<b>Odor Threshold</b>	Not applicable.		
<b>Evaporation Rate</b>	Not available.		
<b>VOC</b>	Not available.		
<b>Viscosity</b>	Not available.		
<b>Ionicity (in water)</b>	Not available.		

<b>Dispersion Properties</b>	Not available.
<b>Solubility</b>	Not miscible with water.
<b>Physical Chemical Comments</b>	Not available.

### **Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	Stable under normal temperatures and conditions.
<b>Conditions of Instability</b>	Avoid contact with ignition sources.
<b>Incompatibility with Various Substances</b>	Acids, oxidizers, strong alkalies. Acidic clays >100 C
<b>Hazardous Decomposition Products</b>	CO <sub>x</sub> Carbon dioxide, carbon monoxide
<b>Hazardous Polymerization</b>	Does occur.

### **Section 11. Toxicological Information**

<b>Toxicity to Animals</b>	Not Available
<b>Chronic Effects on Humans</b>	Not listed as a carcinogen.
<b>Other Toxic Effects on Humans</b>	No component of this product at level greater than 0.1% is classified by established regulatory criteria as carcinogenic, a mutagen a reproductive toxin or embryotoxic.
<b>Special Remarks on Toxicity to Animals</b>	Not available.
<b>Special Remarks on Chronic Effects on Humans</b>	Not available.
<b>Special Remarks on Other Toxic Effects on Humans</b>	Not available.

### **Section 12. Ecological Information**

<b>Ecotoxicity</b>	Not available.
<b>BODS and COD</b>	Not available.
<b>Biodegradable/OEDC</b>	Not available.
<b>Mobility</b>	Not available.
<b>Toxicity of the Products of Biodegradation</b>	Not available.
<b>Special Remarks on The Products of Biodegradation</b>	Not available.

### **Section 13. Disposal Considerations**

<b>Waste Information</b>	Not available.
<b>Waste Stream</b>	Not available.
<b>Consult your local or regional authorities.</b>	

### **Section 14. Transport Information**

<b>DOT Classification</b>	Not hazardous
<b>Marine Pollutant</b>	Not available.
<b>Hazardous Substances Reportable Quantity</b>	Not available.
<b>Special Provisions for Transport</b>	Not applicable.
<b>TDG Classification</b>	Not controlled under TDG (Canada).
<b>ADR/RID Classification</b>	Not controlled under ADR (Europe).
<b>IMO/IMDG Classification</b>	Not controlled under IMDG.
<b>ICAO/IATA Classification</b>	Not controlled under IATA.

### **Section 15. Other Information**

Label requirements

<b>Hazardous Material Information System (U.S.A.)</b>	<b>Health</b>	1	<b>National Fire Protection Association (U.S.A.)</b>	
	<b>Fire Hazard</b>	1		
	<b>Reactivity</b>	0		
	<b>Personal Protection</b>			
<b>References</b>				
<b>Other Special Considerations</b>				
<b>Notice to Reader</b>				
<p><i>To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.</i></p>				