AVANTIK

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MATERIAL SAFETY DATA SHEET

IDENTIFICATION AND EMERGENCY INFORMATION

Product Name	SHUR/Lube Microtome Lubricating Oil
Product Code (Catalog Number)	H-LUB
Product Category (Chemical Name)	Mixture
Product Appearance and Odor	Light Amber Liquid, Slight mild odor.
Emergency Notification	Chem-Tel 1-800-255-3924

COMPONENTS AND HAZARD INFORMATION

Component	CAS No.	%	OSHA TWA ppm	OSHA TWA mg/m3	OSHA STEL ppm	OSHA STEL mg/m3
none						

Hazardous Materials Identification System (HMIS)

Health	Flammability	Reactivity	Basis
1	1	0	Health rating applies only to acute effects as defined by the national paint and coatings association.

PSI Hazard Code

PHYSICAL DATA

THE FOLLOWING DATA ARE APPROXIMATE OR TYPICAL VALUES AND SHOULD NOT BE USED FOR PRECISE DESIGN PURPOSES.

Boiling Range	Specific Gravity	Molecular Weight	Viscosity
>660°F	<1	NA	
Percent Volatile by Volume	**Vapor Pressure @20 C degrees**	**Vapor Density (Air = 1)**	**Pour, Congealing or Melting Point**
not volatile	<0.02 Hm Hg at 300°F	NA	NA

Solubility in Water @1 ATM and 25°C (77°F)	Evaporation Rate @1 ATM and 25°C (77°F) (n-Butyl Acetate =1)	pH
negligible	NA	

FIRE AND EXPLOSION HAZARD INFORMATION

Flash Point (Minimum)	Autoignition Temperature	Test Mode	LEL	UEL
>450°F	NE	Cdc		

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National Fire Protection Association (NFPA) — Hazard Identification			
Health	Flammability	Reactivity	Basis

Handling Precautions
Flammable or Explosive Limits (Approximate Percent by Volume in Air)
Extinguishing Media Water spray, dry chemical, foam, carbon dioxide
Fire Fighting Procedures Burning will produce toxic fumes. Wear self-contained breathing apparatus and full turn-out gear to fight fire. Avoid spreading liquid and fire by flooding.
Decomposition Products Under Fire Condition
"Empty" Container Warning
Unusual Fire and Explosion Hazards Exposure to heat builds up pressure in closed containers. Cool with water spray.
HEALTH AND HAZARD INFORMATION
Variability Among Individuals
Signs and symptoms of overexposure
Effects of Overexposure Low oral and dental toxicity. Mist or fumes from excessive heating may cause irritation, nausea, and vomiting.
Nature of Hazard and Toxicity Information
Pre-existing Medical Conditions which may be Aggravated by Exposure
Threshold Limit Value
Health Hazards
PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES
Eye Contact Flush eyes with water for at least 15 minutes. Call a physician if irritation develops
Skin Wash affected area with plenty of soap and water.

Inhalation Remove to fresh air. Give oxygen or artificial respiration as needed.
Ingestion Never give anything by mouth to an unconscious person. Induce vomiting if victim is conscious. Call a physician.
SEEK MEDICAL TREATMENT IF DISCOMFORT PERSISTS.

REACTIVITY

Stability	Incompatibility	Hazardous Decomposition Products
stable	avoid strong oxidants	will not occur
Conditions to Avoid NA	**Hazardous Polymerization** burning will cause toxic fumes	**Materials to Avoid**

ENVIRONMENTAL INFORMATION

Steps to be Taken in Case Material is Released or Spilled Cover with inert absorbent and remove to disposal container. Obey relevant local, state and federal laws.
Waste Disposal Method Obey relevant local, state and federal laws. Do not contaminate any lakes, streams, ponds, or underwater water supplies.
Disposal
Protective Gear
Precautions to be taken in handling and storage Do not use oil above maximum recommended operating temperature of 450°F(232°C). May soften some plastics and paint surfaces. Wipe up spills immediately.
THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES.
Reportable Quantity (RQ), EPA Regulation 40 CFR 302 (CERCLA Section 102)
Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-304)
Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313)
Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312)

Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard	Not Applicable

SPECIAL STATE NOTIFICATIONS

PROTECTION AND PRECAUTIONS
Ventilation Local exhaust recommended, mechanical exhaust recommended.
Respiratory Protection If over heated, use appropriate NIOSH-approved respiratory protective equipment.
Protective Gloves Impermeable gloves to minimize skin contact.
Eye Protection Chemical splash goggles or face shield.
Other Protective Equipment Eye wash fountains, safety showers, wash contaminated clothing before reuse.
TRANSPORTATION AND OSHA RELATED LABEL INFORMATION
Transportation Incident Information
U.S. DOT Hazardous Materials Shipping Description
OSHA Required Label Information

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END OF MSDS