

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY

PRODUCT NAME: Microtome Oil SUBSTANCE: Synthetic Ultra-Low-Temperature Lubricating Oil

SYNONYMS: Hayline PRODUCT CODE: 30101 NSF REGISTRATION NUMBER: 138421 PRODUCT USE: Synthetic lubricating oil

MANUFACTURER: Rankin Biomedical ADDRESS: 10399 Enterprise Dr. Davisburg, MI 48350

SUPPORT: 877-882-3679 PREPARED BY: SB

#### **SECTION 2: HAZARDS IDENTIFICATION**

POTENTIAL HEALTH EFFECTS: INHALATION: SHORT TERM EXPOSURE: Irritation LONG TERM EXPOSURE: Lung damage

SKIN CONTACT: SHORT TERM EXPOSURE: Irritation LONG TERM EXPOSURE: Irritation, skin disorders

EYE CONTACT: SHORT TERM EXPOSURE: Irritation LONG TERM EXPOSURE: No information available

INGESTION: SHORT TERM EXPOSURE: Diarrhea, difficulty breathing LONG TERM EXPOSURE: no information on significant adverse effects

#### HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS):

Health – 1 Flammability – 1 Reactivity – 0

Not a Controlled Product under (WHMIS) - Canada

Special Protection: See Section 8

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Polyalphaolefin CAS NUMBER: 68037-01-4 EC NUMBER (EINECS): 500-183-1 PERCENTAGE: 95-100

COMPONENT: Benzenepropanoic acid

**CAS NUMBER:** 41484-35-9 **EC NUMBER (EINECS):** 255-392-8 **PERCENTAGE:** 0-1

COMPONENT: Alkylated diphenylamine

CAS NUMBER: 68411-46-1 EC NUMBER (EINECS): 270-128-1 PERCENTAGE: 0-1



**COMPONENT:** Amines

**CAS NUMBER:** 80939-62-4 **EC NUMBER (EINECS):** 279-632-6 **PERCENTAGE:** 0-1

COMPONENT: Propyl paraben

CAS NUMBER: 94-13-3 EC NUMBER (EINECS): 202-307-7 PERCENTAGE: 0-1

COMPONENT: Dimethylpolysiloxane

CAS NUMBER: 63149-62-9 EC NUMBER (EINECS): not assigned PERCENTAGE: 0-1

NOTE: The IP 346 value of the mineral oil is less than 3%

### **SECTION 4: FIRST AID MEASURES**

**INHALATION:** Vapor pressure is very low and inhalation at room temperature is not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician.

**SKIN CONTACT:** Remove any contaminated clothing and wash with soap and warm water. If injected by high pressure under skin, regardless of the appearance or its size, contact a physician IMMEDIATELY. Delay may cause loss of affected part of body.

**EYE CONTACT:** Flush eyes with clear water for 15 minutes or until irritation subsides. If irritation persists, consult a physician. **INGESTION:** If ingested, call a physician immediately. Do not induce vomiting.

### **SECTION 5: FIRE-FIGHTING MEASURES**

FIRE AND EXPLOSION HAZARDS: Slight fire hazard

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide or water spray (fog)

**FIRE FIGHTING:** Cool exposed containers with water. Use air-supplied breathing equipment for enclosed or confined spaces.

**HAZARDOUS COMBUSTION PRODUCTS:** Thermal decomposition products or combustion: oxides of carbon, oxides of Sulphur.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**OCCUPATIONAL RELEASE:** Recover liquid, wash remainder with suitable petroleum solvent or add absorbent. Keep petroleum products out of sewers and watercourses. Advise authorities if product has entered or may enter sewers and watercourses.

### **SECTION 7: HANDLING AND STORAGE**

**STORAGE:** Store and handle in accordance with all current regulations and standards. Keep container tightly closed. Keep away from heat, sparks, and flame. See original container for storage recommendations. Keep separated from incompatible substances.

### SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

EXPOSURE LIMITS: White mineral oil: MINERAL OIL MIST: 5 mg/m3 UK OES TWA 10mg/m3 UK OES STEL



**VENTILATION:** Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits. **EYE PROTECTION:** Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. **CLOTHING:** Wear appropriate chemical resistant clothing.

**GLOVES:** Wear appropriate chemical resistant (nitrile) gloves.

**RESPIRATOR:** Consider the need for appropriate protective equipment, such as self-contained breathing apparatus, adequate masks and filters.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** liquid **APPEARANCE:** clear **COLOUR:** water-white PHYSICAL FORM: oil **ODOR:** odorless BOILING POINT: >288 C FREEZING POINT: Not available FLASH POINT: 207 C (COC) LOWER FLAMMABLE LIMIT: 0.9% by volume **UPPER FLAMMABLE LIMIT:** 7.0% by volume AUTO IGNITION: 221 C (COC) VAPOUR PRESSURE: <0.01 mm Ha VAPOR DENSITY (AIR=1): >5 SPECIFIC GRAVITY (WATER=1): 0.82 **DENSITY:** not available WATER SOLUBILITY: negligible PH: not available VOLATILITY: not available **ODOR THRESHOLD:** not available EVAPORATION RATE: <0.01 (Butyl acetate=1) VISCOSITY: 4.4 mm2/s @ 100 C **COEFFICIENT OF WATER/OIL DISTRIBUTION:** not available

### SECTION 10: EXPOSURE CONTROL/PERSONAL PROTECTION

**REACTIVITY:** Stable at normal temperatures and pressures **CONDITIONS TO AVOID:** Avoid heat, flames, sparks and other sources of ignition. Avoid contact with strong oxidants like liquid chlorine, concentrated oxygen. **INCOMPATIBLES:** Oxidising materials, chlorine

**HAZARDOUS DECOMPOSITION:** Thermal decomposition products or combustion: oxides of carbon, oxides of sulphur **POLYMERISATION:** Will not polymerise.

### SECTION 11: TOXICOLOGICAL INFORMATION

Polyalphaolefin: TOXICITY DATA: Greater than 2,000 mg/kg LD50 oral-rat Benzenepropanoic acid: TOXICITY DATA: Greater than 5,000 mg/kg LD50 oral-rat Alkylated diphenylamine: TOXICITY DATA: Greater than 5,000 mg/kg LD50 oral-rat



Amines: TOXICITY DATA: Greater than 5,000 mg/kg LD50 oral-rat Propyl paraben: TOXICITY DATA: Greater than 8,000 mg/kg LD50 oral-rat Dimethylpolysiloxane: TOXICITY DATA: Greater than 34,600 mg/kg LD50 oral-rat

### SECTION 12: ECOLOGICAL INFORMATION

Not Available

### SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations

### **SECTION 14: TRANSPORT INFORMATION**

LAND TRANSPORT ADR: No classification assigned. LAND TRANSPORT RID: No classification assigned. AIR TRANSPORT IATA: No classification assigned. AIR TRANSPORT ICAO: No classification assigned. MARITIME TRANSPORT IMDG: No classification assigned.

### **SECTION 15: REGULATORY INFORMATION**

EUROPEAN REGULATIONS: EC CLASSIFICATION (CALCULATED): Not classified as dangerous.

#### **SECTION 16: OTHER INFORMATION**

The above information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Rankin Biomedical. The data on these sheets relates only to the specific material designated herein. Rankin Biomedical assumes no legal responsibility for use or reliance upon this data.

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