

Hartland Lubricants & Chemicals
914 Commercial Court
Onalaska, WI 54650
608-779-6353

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

TRADE NAME: **Hartland 240 Cutting Oil**

PRODUCT USE: Machining Oil

EMERGENCY TELEPHONE:

24 HOUR PROFESSIONAL EMERGENCY RESOURCE SERVICES (PERS) 1-800-633-8253

Revision Date: November 29, 2011

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT NAME:	CAS No.	WEIGHT
Distillates, Petroleum, Hydrotreated Heavy Naphthenic	64742-52-5	70-90 %
Distillates, Petroleum, Hydrotreated Light Naphthenic	64742-53-6	10-30 %

COMPOSITION COMMENTS: Refer to section eight for exposure limits on ingredients.
Chemical ingredients not regulated by OSHA or SARA are treated confidentially.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Irritating to eyes and skin. Exposure to vapors generated at high temperatures may cause respiratory irritation. Not regarded as a health hazard under current legislation.

SENSITIZATION: No known information.

CARCINOGENICITY: IARC: Not listed as a Group 1, 2A, or 2B agent. NTP: Not listed. OSHA: Not regulated.

TERATOGENICITY: No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

HEALTH WARNINGS:

GENERAL HEALTH HAZARDS. Inhalation is the main hazard in industrial use.

INHALATION: Oil mist can irritate airways and lungs.

SKIN CONTACT: Slightly irritating. Repeated or prolonged contact can result in drying of the skin.

EYE CONTACT: Irritating

INGESTION: Can cause stomach ache and vomiting.

ROUTE OF ENTRY Skin and/or eye contact. Ingestion. Inhalation.

SECTION 4: FIRST AID MEASURES

INHALATION: Remove victim immediately from source of exposure. Get medical attention if any discomfort continues. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration.

EYES: Important! Immediately rinse with water for at least 15 minutes. Get medical attention if any discomfort continues.

SKIN: Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

INGESTION: DO NOT induce vomiting. Get medical attention immediately.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: (°C) > 177(°C) 350(°F) Cd OC (Cleveland open cup)

FLAMMABILITY LIMIT - LOWER(%): N/D

FLAMMABILITY LIMIT - UPPER(%): N/D

EXTINGUISHING MEDIA: Use: Dry chemicals, sand, dolomite etc. Foam. Carbon dioxide (CO₂).

SPECIAL FIRE FIGHTING PROCEDURES

Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Keep run-off water out of sewers and water sources. Dike for water control. Avoid water in straight hose stream; will scatter and spread fire.

UNUSUAL FIRE & EXPLOSION HAZARDS

Volume and pressure increases strongly when heated. Risk of container explosion in fire. Not flammable according to national regulations concerning flammable goods.

HAZARDOUS COMBUSTION PRODUCTS

Acrid smoke/fumes. Oxides of: Carbon. Sulfur. Chlorides.

PROTECTIVE MEASURES IN CASE OF FIRE

Self-contained breathing equipment and chemical resistant clothing recommended.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Minimize skin contact. Avoid breathing vapors. Wear an appropriate respirator if exposure exceeds recommended guidelines. Remove sources of ignition.

PRECAUTIONS TO PROTECT THE ENVIRONMENT: Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.

SPILL CLEAN-UP PROCEDURES: Keep all sources of ignition and hot metal surfaces away from spill. Avoid contact with eyes or skin. Place leaking containers in well ventilated area. If fire potential exists, blanket spill with foam or use water spray to disperse vapors. Contain spill to minimize contaminated area and facilitate salvage or disposal. To clean up spill, flush area sparingly with water or use absorbent material. Avoid discharge to natural water ways.

SECTION 7: HANDLING AND STORAGE

HANDLING PRECAUTIONS Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Containers should be kept tightly closed. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Eye wash station should be available at the work place.

STORAGE PRECAUTIONS: Keep away from heat, sparks and open flame. Store separated from: Acids. Oxidizing materials.

STORAGE CRITERIA: Chemical storage.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENT:	STD	TWA	STEL	TWA	STEL
Distillates, Petroleum, Hydrotreated	OSHA			5 mg/m ³ (oil mist)	
Heavy Naphthenic	ACGIH			5 mg/m ³ (oil mist)	10 mg/m ³ (oil mist)
Distillates, Petroleum, Hydrotreated	OSHA			5 mg/m ³ (oil mist)	
Light Naphthenic	ACGIH			5 mg/m ³ (oil mist)	10 mg/m ³ (oil mist)

PROTECTIVE EQUIPMENT: Protective gloves and eye goggles or safety glasses recommended.

ENGINEERING CONTROLS: Use engineering controls to reduce air contamination to permissible exposure level.

VENTILATION: No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

RESPIRATORS: No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

PROTECTIVE GLOVES: For prolonged or repeated skin contact use suitable protective gloves. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC or latex.

EYE PROTECTION: Wear splash-proof eye goggles to prevent any possibility of eye contact.
PROTECTIVE CLOTHING: Wear appropriate clothing to prevent repeated or prolonged skin contact.
HYGIENIC WORK PRACTICES: Wash at the end of each work shift and before eating, smoking and using the toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Clear Liquid
COLOR: Yellowish
ODOR: Mild (or faint) Petroleum odor
SOLUBILITY DESCRIPTION: Insoluble in water
MELT./FREEZ. POINT (°C, interval): N/D
DENSITY: 0.92 **Temperature (°C):** 15.6 (60°F)
VAPOR DENSITY (air=1): > 5
VAPOR PRESSURE: < 0.1 mmHg **Temperature (°C):** 20 (68°F)
EVAPORATION RATE: < 0.01 **Reference:** BuAc=1
pH-VALUE, CONC. SOLUTION: N/A

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Normally stable
CONDITIONS TO AVOID: Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidizers.
HAZARDOUS POLYMERIZATION: Will not polymerize
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of: Carbon. Sulfur. Chlorides.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: No experimental toxicological data on the preparation as such is available.

COMPONENT:	DISTILLATES,PETROLEUM,HYDROTREATED,HEAVY NAPHTHENIC
TOXICOLOGICAL DATA:	Carcinogenicity. IP 346 <3%
TOXIC DOSE - LD 50:	> 5000 mg/kg (oral rat)
TOXIC DOSE - LD 50 SKIN:	> 2000 mg/kg (skn rbt)
TOXIC CONC. - LC 50:	N/A
CARCINOGENICITY:	The petroleum base oil contained in this product has been highly refined to remove aromatics and improve performance characteristics. The base oil is not listed as a carcinogen by NTP, IARC, or OSHA.
COMPONENT:	DISTILLATES, PETROLEUM, HYDROTREATED LIGHT NAPHTHENIC
TOXIC DOSE - LD 50:	> 5000 mg/kg (oral rat)
TOXIC DOSE - LD 50 SKIN:	> 3000 mg/kg (skn rbt)
TOXIC CONC. - LC 50:	N/A
CARCINOGENICITY:	Base oils in this product contain < 3% DMSO Extractable total polycyclic aromatic compound (PAC) per IP 346.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No data on possible environmental effects have been found.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Dispose of in accordance with Local Authority requirements.

SECTION 14: TRANSPORT INFORMATION

DOT HAZARD CLASS: Not regulated
U.S. DOT HAZARD LABEL: No DOT label requirement
TDGR CLASS: Not Regulated
SEA TRANSPORT NOTES: Not regulated per IMDG
AIR TRANSPORT NOTES: Not regulated per IATA

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
Distillates, Petroleum, Hydrotreated Heavy Naphthenic	No	No	No
Distillates, Petroleum, Hydrotreated Light Naphthenic	No	No	No

REGULATORY STATUS: Not regulated under SARA 302, SARA 313 or CERCLA

CLEAN AIR ACT

SARA HAZARD CATEGORIES: None

US STATE REGULATIONS

COMPONENT:	CA	MA	FL	MN	NJ	PA	RI
Distillates, Petroleum, Hydrotreated Heavy Naphthenic					Yes	Yes	

STATE REGULATORY STATUS: CALIFORNIA PROPOSITION 65: This product ***DOES NOT*** contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

CONTROLLED PRODUCT CLASSIFICATION: Not a controlled product

GLOBAL INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
Distillates, Petroleum, Hydrotreated Heavy Naphthenic	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

Distillates, Petroleum, Hydrotreated Light Naphthenic	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
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CANADA CEPA: All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).

SECTION 16: OTHER INFORMATION

NFPA-HMIS HAZARD RATING

HEALTH: Irritation, minor residual injury (1) - HMIS/NFPA

FLAMMABILITY: Burns only if pre-heated (1) - HMIS/NFPA

REACTIVITY: Normally stable (0) - HMIS/NFPA

PERSONAL PROTECTION INDEX: B - Safety Eyewear and Gloves

DATE: January 13, 2003

DISCLAIMER: While the information and recommendations set forth herein are believed to be accurate as of the date thereof, the company makes no warranty with respect thereto and disclaims all liability from reliance therein.