



PETROCHEM, INC.

SPECIALTY LUBRICANTS

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MATERIAL SAFETY DATA SHEET

OPTI-LUBE 320 PLUS

PREMIUM HIGH TEMPERATURE SYNTHETIC OVEN CHAIN LUBRICANT

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: OPTI-LUBE 320 PLUS
 Synonym(s): Molecular Synthetic Ester Fluid
 Manufactured / Supplied by:
 PETROCHEM, INC., St. Charles, IL 60175
 Tel: 630-513-6360
 Fax: 630-513-8324
 For Emergency Information contact: Chemtrec - 1-800-424-9300
 For Non-Emergency Information contact: 1-800-521-9891
 Formula: N/A
 Date Prepared: 2/28/07

2. INFORMATION ON INGREDIENTS

Hazardous ingredients are listed if they comprise $\geq 1.0\%$ by weight. "Special Hazardous Substances or Carcinogens" are listed if they comprise $\geq 0.1\%$ by weight.

Non-hazardous components

Chemical Name	CAS	Weight %
Molecular Synthetic Ester Fluid and Additives	Proprietary	100

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

No unusual safety, fire, or spill hazards.

Effects From Acute Exposure

Ingestion: None known
 Skin contact: May cause mild skin irritation.
 Inhalation: None known.
 Eye contact: May cause mild eye irritation.

Aggravated Medical Conditions: None known.

Subchronic (Target Organ) Effects: None known.

Chronic effects / Carcinogenicity: Not listed in IARC, NTP or 29CFR.

Products / Ingredients: The ingredients that are carcinogens are listed here, with specific information about their carcinogenicity.

None

Principle Routes of Exposure: Oral. Dermal - skin. Eyes.

Other: None known.

4. FIRST AID MEASURES

Ingestion: If swallowed, observe victim for 24 hours; seek medical attention if indicated. If vomiting occurs, keep head lower than hips to prevent aspiration.

Skin: For skin contact, wipe away excess material with dry towel. Then wash affected areas with plenty of water, and mild soap if available, for several minutes. Get medical attention if irritation occurs.

Inhalation: If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Notes to Physician: Treatment based on sound judgment of physician and individual reactions of patient.

5. FIRE FIGHTING MEASURES

Flash Point: > 326°C (620°F)
 Method: COC
 Flammable Limits in Air - Upper (%): Maximum % by volume of vapor in air above which propagation of flame does not occur on contact with a source of ignition: N/D
 Sensitivity to Mechanical Impact (Y/N): NO
 Sensitivity to Static Discharge (Y/N): Sensitivity to static discharge is not expected.
 Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical
 Special Firefighting Procedures: Containers can build up pressure if exposed to heat (fire). Fire involving large amounts of material should not be approached because individual containers may rupture abruptly causing "fireball" effect. Fire-fighters should wear self contained breathing apparatus and full protective clothing when fighting chemical fires. Use water spray to cool nearby containers and structures exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:
 Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section. Large quantity spills should be contained and pumped into drums for recovery or disposal.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:
 Keep container closed when not in use. Good hygienic practices should be observed. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material.

NFPA		HMIS	
Health	1	Health	1
Flammability	1	Flammability	1
Reactivity	0	Reactivity	0
Other	N/A	Other	B

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: None required under normal conditions.
Personal Protection Equipment
 Respiratory Protection: None required under normal conditions.
 Protective Gloves: Use gloves as a standard industrial handling procedure.
 Eye and Face Protection: Wear safety glasses or goggles to protect against exposure.
 Other Protective Equipment: None Required
 Ventilation: No unusual ventilation required.
Exposure Limits

Chemical Name	CAS	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- STEL	Units
Polyol Ester and Additives	Proprietary	None	None	None	None	ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N/A
 Vapor Pressure: N/D
 Vapor Density (Air = 1): N/D
 Freezing Point: N/D
 Melting Point: < -20 °C
 Physical State: Liquid
 Odor: MILD
 Color: Clear, Yellow- Amber
 Odor Threshold (ppm): N/A
 Evaporation Rate (Butyl acetate = 1): N/A

Pounds / Gallon (Water = 8.3):	8.3 @ 25 C
Density @ 25°C (Water = 1):	0.98 @ 25 C
Acid / Alkalinity (MEQ/G):	N/D
pH:	N/D
VOC (EPA Meth.24) (g/L):	N/D
Solubility in Water (20 °C):	INSOLUBLE
Solubility in Organic Solvents:	N/D
Viscosity:	320 cSt @ 40 °C

10. STABILITY AND REACTIVITY

Stability:	STABLE
Hazardous Polymerization:	WILL NOT OCCUR
Hazardous Thermal Decomposition / Combustion Products:	No unusual decomposition products known
Incompatibility (Materials to Avoid):	None known.
Conditions to Avoid:	None known.

11. TOXICOLOGICAL INFORMATION

Ingestion: N/A
 Skin Contact: N/A
 Eye Contact: N/A
 Sensitization: N/A

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:	No data at this time
Chemical Fate Information:	No data at this time.

13. DISPOSAL CONSIDERATIONS

Disposal Method: As local regulations may vary; all waste must be disposed/recycled/ reclaimed in accordance with federal, state, and local environmental control regulations.

14. TRANSPORT INFORMATION

Department of Transportation Information

Shipping Name:	Non-Regulated
Hazard Class:	Non-Regulated
Label(s):	NONE
UN/NA Number:	NONE
Placards:	NONE

International Transportation Classifications

RID, European Railroad Hazard Class:	Not Available
IATA, International Air Transportation:	Not Available
IMDG, International Maritime Dangerous Goods:	NONE

15. REGULATORY INFORMATION

	<u>National Regulatory Status</u>
TSCA Inventory Status:	All components of this product are listed on the TSCA Inventory.
SARA Section 302:	None Found
SARA (311, 312) Hazard Class:	NONE
SARA (313) Chemicals:	THIS PRODUCT DOES NOT CONTAIN A TOXIC CHEMICAL FOR ROUTINE ANNUAL 'TOXIC CHEMICAL RELEASE REPORTING' UNDER SECTION 313 (40 CFR 372)
CERCLA Hazardous Substance:	Not a listed EHS
CERCLA Reportable Quantity:	No listed reportable quantity
California Proposition 65:	NONE
	<u>International Regulatory Status</u>
Canadian (DSL) Inventory Status:	Listed on NDSL
WHMIS Hazard Class:	Not Available
WHMIS Trade Secret:	None
<u>Export</u>	
SCHDLE B/HTSUS: (Tariff Classification #):	Not Available
ECCN (Export Commodity Control Number):	Not Available

EINECS Inventory Status:

Listed on EINECS

EC Labeling Requirements

EC Required Symbol(s):	None Required
EC Safety Phrases:	Not Available
EC Risk Phrases:	Not Available
Korean (ECL) Inventory Status:	Listed on ECL
Japanese (MITI) Inventory Status:	Not Available
Australian (AICS) Inventory Status:	Listed on AICS
Philippines (PICCS) Inventory Status:	All components are listed on PICCS.
Chinese Chemical Inventory Status:	Not Available

16. OTHER INFORMATION

OR ADDITIONAL INFORMATION CONTACT:

Petrochem, Inc.
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17. HAZARD ASSESSMENT

Hazard Assessment Information:	None
Same as Another Existing Product:	N/A
Other Information:	None