MATERIAL SAFETY DATA SHEET

PHASE CHANGE™ LUBRICANT

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:

PHASE CHANGE™ Lubricant

Product Use:

Industrial and Specialty lubrication

Chemical Name and Synonyms:

Hydrocarbon Mixture

PIN Number:

Not required

Manufacturer:

Western Phase Change Corporation

14305 N. 79th Street, Suite A

Scottsdale, AZ 85260

For Information: Emergency:

800-332-4322 or FAX 602-951-0501

800-424-9300

Prepared by:

J.A. Gurney, PhD

PH: 602-996-4235

Preparation date:

September 2, 1994

Revision date:

August 12, 1997

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Product Hazards: Under normal usage, this product has no expected hazards.

Components: This section is confidential and provided only upon signature of a non-

disclosure and non-compete agreement.

SECTION 3: HAZARD IDENTIFICATION

Emergency: Avoid aspiration of oil mists into the lungs.

Primary Routes of Contact: Oral and skin.

Health Hazards (Acute Exposure):

Eye: May cause slight irritation.

Skin: No significant effects expected under short contact.

Ingestion: May cause a laxative effect. Small amounts by fingers and hands not considered harmful. Large amounts in children may cause drowsiness, giddiness, or

other CNS effects.

Vapor Inhalation: Effects not known.

Chronic Effects: Effects not known.

Irritancy: Slight eye or skin irritation under repeated and extensive contact.

Sensitization: Non-sensitizing.

Carcinogenicity Listings: NTP - none; IARC - none; OSHA - none; ACGIH - none.

Signs and Symptoms of Overexposure: Reddening and itching.

Medical Conditions Aggravated by Exposure: Not known.

Physical Hazards:

Avoid open flame or other sources of ignition. Slightly combustible mixture.

SECTION 4: FIRST AID PROCEDURES

Eye: If splashed into the eyes, flush with water 15 minutes or until irritation subsides. If

irritation persists, call a physician.

Skin: Wash with soap and water any affected areas. Launder any contaminated clothing

before reusing.

Ingestion: Do not induce vomiting. If nauseous or if gastric discomfort occurs, call a physician.

Inhalation: Aspiration into the lungs may cause lipoid pneumonia. If liquid is aspirated into the lungs, contact a physician immediately.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point and Method: Greater than 320°F (160°C), C.O.C. ASTM method D-92.

Auto ignition: Greater than 505°F (300°C). **Explosion Limits:** Data not available.

Flammability Classification as defined by OSHA: Class III B Combustible Liquid.

Combustion Products: Combustion will produce carbon dioxide and/or carbon monoxide,

sulfur dioxide and possibly phosgene.

Extinguishing Media: Water fog, carbon dioxide, dry chemical, foam,

Unusual Fire and Explosion Hazard: Spills can be slippery. Take care to secure

adequate footing.

Special Precautions: Avoid streams of water as this may serve to spread burning liquid.

Stay upwind of a fire. Smoke may be dark and dense.

Fire-Fighting Equipment: Use self-contained breathing apparatus (SCBA) in any enclosed

area. Use appropriate protective equipment such as bunker gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Procedures for clean-up:

For small spills: Wipe up and dispose in a suitable waste container.

Personal Protection: No special requirements. Spills to smooth, hard surfaces may

be very slippery. Take care with footing.

Environmental Precautions: Avoid discharge to sewers and public waterways.

SECTION 7: HANDLING AND STORAGE

Safe Handling and Hygienic Practices: Control oil mists through a vacuum aspirator and/or adequate ventilation. Normal usage amounts not expected to cause a hazard.

Storage Requirement: In well-closed containers to avoid prolonged air contact. Keep away from children.

SECTION 8: EXPOSURE CONTROLS

Engineering Controls: No special requirements except to control oil mists below established limits.

Personal Protection: Good handling practices should be sufficient.

Ventilation: Use local mechanical ventilation where needed to avoid any oil mist.

Respiratory: No special equipment requirements under normal conditions.

Eye Protection: Not normally required. Safety glasses under splashing conditions.

Gloves: Not required. Ingestion: Do not ingest.

Exposure Limit Guidelines: PEL 5mg/M³, STEL 10mg/M³ for oil mists.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor: Pale yellow and clear color. Light walnut odor.

Physical state: Mobile liquid.
pH of Concentrate: Not applicable.
Vapor Pressure: < 0.1 mm (Estimated)
Vapor Density: (Air=1) > 1 (Estimated)

Specific Gravity: 0.87

Solubility in Water: Negligible.

Boiling Point: > 446°F (230°C) (Estimated)

Viscosity: 78 to 90 SUS (Estimated)

Evaporation Rate: (Butyl Acetate = 1) Not applicable.

Percent Volatile: Data not available.

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid: Avoid high heat and ignition sources.

Incompatibility: Avoid contact with strong oxidizing agents such as pure oxygen and

chlonne.

Hazardous Decomposition: Will not occur. Hazardous Polymization: Will not occur.

SECTION 11: TOXICITY INFORMATION

Acute Data: Rat-oral LD₅₀: >5000 mg/kg.

Information for this MSDS based on component data and manufacturing experience.

SECTION 12: ECOLOGICAL INFORMATION

This product has a low probability of toxic environmental impact.

SECTION 13: DISPOSAL CONSIDERATIONS

RCRA Characteristics: This product has been evaluated under the RCRA criteria and is not considered a hazardous waste in its purchased form.

Volatile Organic Compound (VOC) Content: Does not contain volatile organic compounds

as defined by the California Air Resources Board (CARB).

Special Instructions: Small amounts do not have any special requirements.

SECTION 14: TRANSPORT INFORMATION

DOT Labeling: Not required.
Proper shipping: Not required.
Hazard Class: Not required.

Identification Number: Not required.

Page 4 of 4 Date of Preparation: 9/2/94 Revision Date 8/12/97 MSDS No: PCL-001

SECTION 15: REGULATORY INFORMATION

OSHA Compliance: This MSDS prepared in accordance with 29CFR1910.1200 and the ANSI 2 400.1 Standard for the preparation of Material Safety Data Sheets (MSDS). Also drawn to meet the WHMIS standards according to Section 13(a) and 14(a) of the Hazardous Products Act and Part I of the Controlled Products Regulations.

TSCA: Although components of this product find listing under the Toxic Substances Control Act (TSCA), this blended product requires no import or export declarations.

SARA Title III: The product in its purchased form is not regulated under the SARA hazard categories of Sections 311 and 312 of the Superfund Amendment and the Reauthorization Act of 1986 (SARA Title III).

CERCLA (Superfund), State and Local Planning (Reportable Quantities): Not required. State Right-to-Know Compliance:

California: Not required.
Massachusetts: Not required.
New Jersey: Not required.
Pennsylvania: Not required.

SECTION 16: OTHER INFORMATION

Hazard Rating:

Health: 0

No significant health effects.

Flammability: 1

Combustibility.

Reactivity: 0

Not considered reactive under fire conditions.

Does not react with water.

BASED ON THE NFPA 704 STANDARD:

Rating	<u>Hazard</u>
4	Extreme
3	Severe, Damage
2	Moderate
1	Slight
0	None

DISCLAIMER: The information expressed herein are those of qualified experts for Western Phase Change Corp. We believe that this information is accurate and current as of the date of this Material Safety Data Sheet. Since the application of this information, and the conditions of use of the product are not under the control of Western Phase Change Corp., the user must evaluate and determine whether the conditions for use and the application of the product, including proper disposal, are appropriate, safe, and legal.