



MATERIAL SAFETY DATA SHEET  
LPS® ThermaPlex® Hi-Temp Bearing Grease

Revision Date: August 17, 2011

Supersedes: April 1, 2011

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**Section 1 • Product and Company Identification**

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**Product Name:** LPS® ThermaPlex® Hi-Temp Bearing Grease

**Part Number(s):** 70214, 70206, 70235, 70255, C70214, C70206, C70235, C70255

**Chemical Name:** Petroleum Hydrocarbon

**Product Use:** A lubricating grease intended for bearings in high temperature applications.

**Manufacturer Information:** LPS Laboratories, 4647 Hugh Howell Road, Tucker, GA, USA 30084  
**TEL:** USA & Canada: 1 800 241-8334  
Outside USA and Canada: +1 770 243-8800  
**FAX:** USA & Canada: 1 800 543-1563  
Outside USA and Canada: +1 770 243-8899

**Emergency Telephone Number:** Chemtrec: USA & Canada: 1 800 424-9300  
Outside USA and Canada: +1 703 527-3887

**Website:** <http://www.lpslabs.com>

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**Section 2 • Hazards Identification**

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*This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). 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.*

**Emergency Overview:**

**Aerosol:** Not applicable

**Bulk:** WARNING: Prolonged or repeated skin contact may cause irritation.

**Primary route(s) of entry:** Skin and eye contact.

**Potential Acute Health Effects:**

**Eyes:** Irritating to eyes.

**Skin:** Repeated exposure may cause skin dryness or defatting of the skin.

**Inhalation:** Oil mist may cause irritation of the respiratory tract.

**Ingestion:** Product has a low order of acute oral toxicity, but ingestion of large quantities may cause nausea, vomiting, and gastrointestinal irritation.

**Potential Chronic Health Effects:**

**Carcinogenic Effects:** NTP: No IARC: No OSHA: No ACGIH: No

**Mutagenic Effects:** None

**Teratogenic Effects:** None

**Target Organs:** None

**Medical conditions aggravated by exposure:**

None known from normal exposure.

**Signs and Symptoms**

Stinging in eyes. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis).



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**Section 3 • Composition / Information on Ingredients**

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Component	CASRN	Weight Percent
Residual Oils (Petroleum), Solvent Refined	64742-01-4	60 - 100%

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**Section 4 • First Aid Measures**

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- Eyes:** Check for and remove contact lenses. Immediately, flush eyes with cool, clean, low-pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. DO NOT use eye ointment. Seek medical attention if irritation persists.
- Skin:** Remove contaminated shoes and clothing. Clean affected area thoroughly with mild soap and water. DO NOT use ointments. Seek medical attention if irritation persists.
- Inhalation:** Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, seek medical attention immediately.
- Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. DO NOT leave victim unattended. Seek medical attention immediately.

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**Section 5 • Fire Fighting Measures**

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- Products of Combustion:** Carbon monoxide and carbon dioxide.
- General Fire Hazards:** High heat will cause product to boil, evolving vapor that could cause explosive rupture of closed containers.
- Firefighting media:** SMALL FIRE: Use DRY chemical powder.  
LARGE FIRE: Use CO2, water spray, fog or foam.
- Sensitivity to Impact:** None      **Sensitivity to Static Discharge:** None
- Protection Clothing (Fire):** Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.
- Special Remarks on Explosion Hazards:**  
None

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**Section 6 • Accidental Release Measures**

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- Containment Procedures:**
- Small Spill and Leak:** Absorb with an inert material and dispose of properly.
  - Large Spill and Leak:** Prevent material from entering sewers and drains. Pick up for disposal using absorbant pads, sand or other inert non-combustible materials. Place into appropriate waste containers for later disposal.
- Clean-Up Procedures:** Recover free product and place in a suitable container for disposal.
- Evacuation Procedures:** Ventilate area of leak or spill. Keep unnecessary and unprotected people away.
- Special Procedures:** Remove all sources of ignition. Ventilate area. Wear personal protective equipment during cleanup. Be aware of spilled material on walking surfaces - this product is slippery.



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**Section 7 • Handling and Storage**

**Handling:** Avoid contact with skin and eyes. Wash thoroughly after handling.

**Storage:** Keep container sealed until ready for use. Keep container in a cool, well-ventilated area. Store between 40°F and 120°F (4.4°C and 49°C).

**Precautions to be taken in handling and storage:**

Keep container in a cool, well-ventilated area. Avoid breathing vapors.

**Section 8 • Exposure Controls / Personal Protection**

**Engineering Controls:** Provide general and/or local exhaust ventilation to keep exposures below 5 mg/m3 oil mist in air.

**Personal protective equipment**

**Eye protection:** Safety glasses with side shields conforming to appropriate regulations. Eye wash fountain and emergency shower facilities are recommended.

**Hand protection:** Normally no hand protection is required; however, using chemical resistant gloves is recommended.

**Respiratory protection:** Typical use of this product under normal conditions does not require the use of respiratory protection. If airborne concentrations are above the applicable exposure limits (listed above), use NIOSH approved respiratory protection (i.e. organic vapor cartridge).

**General Hygiene** Wash thoroughly after handling. Have eye-wash facilities immediately available.

**Section 9 • Physical and Chemical Properties**

<b>Appearance:</b>	Paste	<b>Color:</b>	Brown
<b>Odor:</b>	Petroleum	<b>Evaporation Rate:</b>	< 1 (BuAc = 1)
<b>Solubility Description:</b>	Not soluble in water	<b>Flash Point:</b>	> 230°C (446°F)
<b>Boiling Point:</b>	Not established	<b>Flash Point Method:</b>	Tag-Closed Cup
<b>Specific Gravity (H2O=1):</b>	0.99 - 1.01 @ 20°C	<b>Decomposition Temperature:</b>	Not established
<b>Vapor Density (air = 1):</b>	> 1	<b>Auto ignition temperature:</b>	Not established
<b>Vapor Pressure:</b>	Not established	<b>Flammable limits (estimated):</b>	LOWER: N.E. UPPER: N.E.
<b>Rule 1171 PPC:</b>	Not applicable	<b>Partition Coefficient (octanol/water):</b>	Not established
<b>V.O.C. Content:</b>	Aerosol: Not applicable Bulk: 0% per State & Federal Consumer Product Regulations	<b>Odor Threshold:</b>	Not established
<b>Melting Point:</b>	Not established	<b>Viscosity:</b>	Not established
<b>pH:</b>	Not applicable	<b>Volatiles:</b>	0%
<b>Heat of combustion:</b>	Aerosol: Not applicable Bulk: Not established		



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**Section 10 • Stability and Reactivity**

**Chemical Stability:** Product is stable under recommended storage conditions.  
**Conditions to Avoid:** No specific measures to avoid.  
**Incompatibility:** Reactive or incompatible with oxidizing agents.  
**Hazardous Decomposition:** These products are carbon oxides (CO, CO<sub>2</sub>).  
**Hazardous Polymerization:** Will not occur.

**Section 11 • Toxicological Information**

**Acute and Chronic Toxicity**

**A: General Product Information**

An acute toxicity study of this product has not been conducted. Information given in this section relates only to individual constituents contained in this preparation.

**B: Component Analysis**

Component	CASRN	LC-50	LD-50
Residual Oils (Petroleum), Solvent Refined	64742-01-4	2.18 mg/L / rat / 4 hr	> 2000 mg/kg / oral / rat* > 2000 mg/kg / dermal / rabbit*

\* Supplier Data

**Section 12 • Ecological Information**

**Mobility:** Non-volatile. Absorbed only slowly into soil. **Persistence / Degradability:** Only slightly biodegradable  
**Bioaccumulative potential:** No bioaccumulation potential **Other adverse effects:** None known

**Section 13 • Disposal Considerations**

**Waste Status:** In its purchased form, this material does not meet the definition of a RCRA hazardous waste (40 CFR 261).  
**Disposal:** Waste must be disposed of in accordance with any and all applicable environmental control rules and/or regulations.  
**Note:** Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive than federal laws and regulations.

**Section 14 • Transport Information**

This product is not regulated by any mode of transportation.

The preceding information is subject to change and must be verified prior to shipment. It is the responsibility of anyone offering hazardous materials for shipment to ensure compliance with all applicable regulations.



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Section 15 • Regulatory Information

U.S. Federal Regulations

RCRA Hazardous Waste No.: None

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA):

None

Toxic Substances Control Act (TSCA):

All components of this product are TSCA inventory listed and/or are exempt.

Superfund Amendments and Reauthorization Act (SARA) Title III SARA Section 311/312 (40 CFR 370) Hazard Categories:

None

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):

No individual section 313 component is present at or above 1%.

Section 112 Hazardous Air Pollutants (HAPs): None

State Regulations

California: This product does not contain chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

California and OTC States: This product is not regulated by consumer product regulations.

New Jersey Right to Know:

Aerosol: Not applicable

Bulk: Residual Oils (Petroleum), Solvent Refined 64742-01-4 • Poly-Alpha Olefin 68037-01-4 • Lithium 12-Hydroxystearate 7620-77-1 • Dilithium Adipate 18621-94-8 • Lithium Borate 12007-60-2

International Regulations

Canadian Environmental Protection Act (CEPA):

All of the components of this product are included on the Canadian Domestic Substances list (DSL).

Canadian 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.

WHMIS Classification:

NOT WHMIS controlled

Other Regulations:

Montreal Protocol listed ingredients: None

Stockholm Convention listed ingredients: None

Rotterdam Convention listed ingredients: None

RoHS Compliant: Yes




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Section 16 • Other Information

MSDS#: 70214 MSDS Preparation Responsible Name: Elena Badiuzzi Compliance Manager Telephone: +1 770 243-8800	HMIS 1996	HMIS III	NFPA Flammability  Special Health      Reactivity
	Health: 1	Health: [ ] 1	
	Flammability: 1	Flammability Aerosol: NA Flammability Bulk: 1	
	Reactivity: 0	Physical Hazard Aerosol: NA Physical Hazard Bulk: 0	

**Notice to Reader:**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Elena Badiuzzi, Compliance Manager  
LPS Laboratories, a division of Illinois Tool Works