



MATERIAL SAFETY DATA SHEET

LPS[®] ThermaPlex[®] Bio Green[™]

Bearing Grease

Revision : 2

Revision Date:5/15/09

Supercedes: 3/30/09

Section 1 – Identification

Product Name: LPS[®] ThermaPlex[®] Bio Green[™] Bearing Grease

Part Number: 70706, 70714, C70706, C70714

Chemical Name: Vegetable Oil

Product Use: LPS[®] ThermaPlex[®] Bio Green[™] Bearing Grease is an environmentally friendly alternative to traditional greases in applications where contamination of the environment is a concern.

Manufacturer Information: LPS Laboratories, 4647 Hugh Howell Rd., Tucker, GA, USA 30084

TEL: 1 770-243-8800

Emergency Telephone Number: 1-800-424-9300 Chemtrec;
Outside U.S.: (703) 527-3887

FAX: 1 770-243-8899

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

PLAIN LANGUAGE HAZARD SUMMARY

Material Safety Data Sheets can be confusing. Federal and State laws require us to include a great deal of technical information that probably won't help the non-professional. LPS includes this "PLAIN LANGUAGE HAZARD SUMMARY" to address the questions and concerns of the average worker. If you have additional health, safety or product questions, don't hesitate to call us at 800/241-8334.

Worker Toxicity

LPS[®] ThermaPlex[®] Bio Green[™] is an environmentally friendly alternative to traditional greases in applications where contamination of the environment is a concern. LPS[®] ThermaPlex[®] Bio Green[™] is not a hazardous substance as defined by 29CFR 1910.1200. For more exposure and first aid information, refer to MSDS Sections 2, 8 and 11.

Flammability

LPS[®] ThermaPlex[®] Bio Green[™] flashpoint is greater than 200°C (392°F), and is not classified as flammable or combustible.

Disposal

Dispose of in accordance with local, state, provincial, and federal regulations. See section 13 for more details.



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Section 2 – Hazards identification

This material is considered non-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: 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 skin.

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

Ingestion: This product has a low order of acute oral toxicity; however minute amount aspirated into lungs during ingestion may cause severe pulmonary injury.

Potential Chronic Health Effects:

Carcinogenic Effects: NTP: No OSHA: No ACGIH: No

Mutagenic Effects: None

Teratogenic Effects: 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).

Section 3 – Composition / Information on Ingredients

Component

CASRN

Weight Percent

No hazardous ingredients are present at or above 1%.
This product is not WHMIS Controlled.



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Section 4 – First Aid Measures

- Eyes:** Check for and remove contact lenses. If irritation or redness develops, 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 immediately.
- 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.

Section 5 – Fire Fighting Measures

Products of Combustion: Carbon monoxide and carbon dioxide.

Firefighting media: SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use 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.

Section 6 – Accidental Release Measures

- Containment Procedures** Contain and recover spilled material when possible.
- Clean-Up Procedures**
- Small Spill and Leak:** Absorb with an inert material and dispose of properly.
- Large Spill and Leak:** Pick up any free liquid for disposal using absorbent pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal.
- Evacuation Procedures** Spilled material is extremely slippery; keep unnecessary and unprotected people away.
- Special Procedures** None known.



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Section 7 – Handling and Storage

Handling: Wash thoroughly after handling.

Storage: Keep containers sealed until ready for use. Avoid excessive long-term storage temperatures to prolong shelf life. Keep container in a cool, well-ventilated area. Store below 120°F.

Precautions to be taken in handling and storage: Store all materials in dry, well-ventilated area.

Section 8 – Exposure Controls / Personal Protection

Engineering measures Provide general and/or local exhaust ventilation to keep exposures below the exposure guidelines.

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 (i.e., nitrile) is recommended.

Respiratory protection Typical use of this product under normal conditions does not require the use of respiratory protection. If necessary use NIOSH approved respiratory protection (i.e., organic vapor cartridge).

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

Section 9 – Physical and Chemical Properties

Appearance:	Paste	Color:	Green
Odor/Taste:	Vegetable Oil	Vapor Pressure:	<1 mmHg
Solubility Description:	Slight	Evaporation Rate:	Not Established
Boiling Point:	Not Established	Flash Point:	245°C (473°F)
Specific Gravity (Water=1):	0.92	Flash Point Method:	Cleveland Open Cup
Vapor Density (Air=1):	<1	Auto Ignition Temperature (°C):	Not Established
V.O.C. Content:	0	Partition Coefficient (octanol/water):	Not Established
Flammable limits (estimated):	LOWER: NE UPPER: NE	Viscosity:	Not Established
pH:	Not applicable	Odor threshold	Not Established
Melting Point	Not Established	Volatiles:	0
Decomposition Temperature	Not Established		



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Section 10 – Chemical 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, CO2).

Hazardous Polymerization: Will not occur.

Section 11 – Toxicological Information

An acute toxicity study of this product has not been conducted. However, if handled in accordance with good industrial hygiene practice, this product will not present a significant hazard in the workplace.

Section 12 – Ecological Information

Mobility:	Readily absorbed into soil.	Persistence and degradability:	Expected to biodegrade.
Bioaccumulative potential:	No bioaccumulation potential.	Other adverse effects:	None Known

Section 13 – Disposal Considerations

Waste Status: None.

Disposal: Waste must be disposed of in accordance with national, regional, provincial, and local environmental control 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 – Transportation Information

This material is not regulated by any mode of transportation.

Section 15 – Regulatory Information

U.S. Federal Regulations

RCRA Hazardous Waste No.: None.

Comprehensive Environmental Response 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



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State Regulations

New Jersey RTK: Vegetable Oil 68956-68-3 • Aluminum Complex Soap 68815-27-0 • Calcium Carbonate 471-34-1 • Fatty Acid Ester 85586-21-6 • Alkylated Diphenylamines 68608-77-5 •

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

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

International Regulations

Canadian Environmental Protection Act: 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.

Section 16 • Other Information

MSDS# 70714 Responsible Name: Clea Johnson Regulatory Affairs Coordinator	HMIS 1996		HMIS III		NFPA Flammability  Health Reactivity
	Health:	1	Health:	[/]1	
	Flammability:	1	Flammability:	1	
	Reactivity	0	Physical Hazard:	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.

Clea Johnson, Regulatory Affairs Coordinator
LPS Laboratories, A division of Illinois Tool Works