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PREMIUM LITHIUM COMPLEX GREASE #2

 MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

#2 PREMIUM LITHIUM COMPLEX GREASE

MSDS Number: MAG00118

Version Date: 03/14/2001

Product Name: #2 PREMIUM LITHIUM COMPLEX GREASE

Synonyms: Petroleum Hydrocarbon Lubricant

Manufacturer

Magie Brothers Oil Company
 9101 Fullerton Avenue
 PO Box 1089
 Franklin Park, IL 60131-1089
 USA

Phone Numbers

Medical Emergency: 1-800-342-5119 or 1-281-493-2767

Transport Emergency

CHEMTREC(USA): 1-800-424-9300

CHEMTREC(International): 1-703-527-3887

MSDS Assistance: 1-281-293-5550

 Internet Address: www.conoco.com

2. COMPONENT INFORMATION

COMPONENT	CAS No.	Weight %	Hazardous in Blend
Lithium, 12-hydroxyoctadecanoate sebecate complex	68815-49-6	5 - 12	No
Antimony dialkyldithiocarbamate	15890-25-2	2 - 5	No
Solvent dewaxed residual oil	64742-62-7	30 - 35	No
Heavy paraffinic solvent dewaxed distillate	64742-65-0	45 - 55	No
Zinc alkyldithiophosphate	68988-45-4	< 1	No

OTHER: Greases consist of solid or semisolid dispersion of metallic soaps and other thickeners in a mineral oil base.

3. HAZARDS IDENTIFICATION

--- EMERGENCY OVERVIEW ---

OSHA REGULATORY STATUS

This material is HAZARDOUS as defined under OSHA regulations.

APPEARANCE / ODOR

Amber grease / Sweet odor

HMIS Ratings: Health 1; Flammability 1; Reactivity 0.

Primary Route of Exposure: Skin

HEALTH EFFECT INFORMATION

EYE CONTACT: This product is minimally irritating to the eyes upon direct contact. Based on testing of similar products and/or components.

SKIN CONTACT: Avoid skin contact. This product is minimally irritating to the skin upon direct contact. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping, and reddening. This condition may make the skin more susceptible to other irritants, sensitizers, and disease. Prolonged or repeated contact may result in oil acne which is characterized by blackheads with possible secondary infection.

INHALATION: This product has a low vapor pressure and is not expected to present an inhalation hazard at ambient conditions. Caution should be taken to prevent aerosolization or misting of this product. See Section 8 for oil mist exposure limits.

INGESTION: Do not ingest. This product is relatively non-toxic by ingestion. This product has laxative properties and may result in abdominal cramps and diarrhea.

OTHER: Long term exposure to small doses of mineral oil by inhalation, aspiration or ingestion leading to aspiration can lead to lipid pneumonia or lipid granuloma of the lung. These are low-grade, chronic localized tissue reactions. Shortness of breath and cough are the most common symptoms.

See Section 11 - Toxicological Information.

4. FIRST AID INFORMATION

EYE CONTACT: Immediately flush eyes with large amounts of water and continue flushing until irritation subsides. If material is hot, treat for

thermal burns and seek immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention. If material is hot, submerge injured area in cold water. If victim is severely burned, remove to a hospital immediately.

If injected under the skin, necrosis could occur. See physician.

INHALATION: This material has a low vapor pressure and is not expected to present an inhalation exposure at ambient conditions. If vapor or mist is generated when the material is heated or handled, remove victim from exposure.

INGESTION: Do not induce vomiting. Seek medical attention.

PHYSICIAN'S NOTES: High velocity injection under the skin can cause a bloodless puncture wound and result in necrosis. Immediate attention by a surgical specialist is recommended.

5. FIRE AND EXPLOSION INFORMATION

FLAMMABLE PROPERTIES

Flash Point: 425 F, 218.3 C

Test Method: ASTM D-92 (C.O.C.)

Flammable Limits in Air

Upper Percent: No data available

Lower Percent: No data available

Autoignition Temperature: No data available

NFPA Ratings: Health 0; Flammability 1; Reactivity 0.

EXTINGUISHING MEDIA: Use dry chemical, foam, or carbon dioxide.

FIRE FIGHTING MEASURES

SPECIAL FIRE FIGHTING PROCEDURES AND EQUIPMENT: Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

UNUSUAL FIRE AND EXPLOSION CONDITIONS: Dense smoke may be generated while burning. Carbon monoxide, carbon dioxide, and other oxides may be generated as products of combustion.

6. ACCIDENTAL RELEASE MEASURES

PERSONNEL SAFEGUARDS: Consult Health Effect Information in Section 3,

Personal Protection Information in Section 8, Fire and Explosion Information in Section 5, and Stability and Reactivity Information in Section 10. Remove all sources of ignition.

REGULATORY NOTIFICATIONS: Notify appropriate authorities of spill.

CONTAINMENT AND CLEAN UP: Contain spill immediately. Do not allow spill to enter sewers or watercourses. Absorb with appropriate inert material such as sand, clay, etc. Large spills may be picked up using vacuum pumps, shovels, buckets, or other means and placed in drums or other suitable containers.

7. HANDLING AND STORAGE INFORMATION

HANDLING: Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash clothing prior to reuse.

Fire extinguishers should be kept readily available. See NFPA 30 and OSHA 1910.106--Flammable and Combustible Liquids.

STORAGE: Do not transfer to unmarked containers. Store in closed containers away from heat, sparks, open flame, or oxidizing materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

EXPOSURE LIMITS AND GUIDELINES:

Antimony dialkyldithiocarbamate	OSHA PEL:	TWA 0.5 mg/m ³
	ACGIH TLV:	TWA 0.5 mg/m ³

Oil mist	OSHA PEL:	TWA 5 mg/m ³
	ACGIH TLV:	TWA 5 mg/m ³ ; STEL 10 mg/m ³

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: Eye protection is not required under conditions of normal use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.

SKIN PROTECTION: No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing (boots, gloves, aprons, etc.). Launder soiled clothes. Properly dispose of contaminated leather articles including shoes, which cannot be decontaminated.

RESPIRATORY PROTECTION: Respiratory protection is not required under conditions of normal use. If vapor or mist is generated when the material is heated or handled, use an organic vapor respirator with a dust and mist filter. All respirators must be NIOSH certified.

PERSONAL HYGIENE: Consumption of food and beverage should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking, or smoking.

ENGINEERING CONTROLS / WORK PRACTICES

VENTILATION: Normal shop ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber grease
Odor:	Sweet
Vapor Pressure:	No data available
Vapor Density (air=1):	No data available
pH:	No data available
Percent Volatile by Volume:	4
Boiling Point:	IBP > 600 F, 315.6 C
Volatile Organic Content:	No data available
Melting Point:	450 - 490 F, 232.2 - 254.4 C
Molecular Weight:	No data available
Specific Gravity:	0.89 @ 16 C / 60 F
Average Carbon Number:	No data available
Pour Point:	No data available
Viscosity @ 100 F:	No data available
Viscosity @ 40 C:	No data available
Solubility in Water:	Insoluble in water, soluble in hydrocarbons

10. STABILITY AND REACTIVITY INFORMATION

Chemical Stability: Stable.

Conditions to Avoid: Heat, sparks, and flame.

Incompatible Materials to Avoid: May react with strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and other oxides may be generated as products of combustion.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY: The International Agency for Research on Cancer (IARC) has concluded that there is inadequate data to evaluate the carcinogenicity to experimental animals of formulated products.

This product is not carcinogenic according to the OSHA Hazard Communication Standard.

12. ECOLOGICAL INFORMATION

No information available

13. DISPOSAL INFORMATION

REGULATORY INFORMATION: All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. Caution! If regulated solvents are used to clean up spilled material, the resulting waste mixture may be regulated. Department of Transportation (DOT) regulations may apply for transporting this material when spilled.

WASTE DISPOSAL METHODS: Waste material may be landfilled or incinerated at an approved facility. Materials should be recycled if possible.

14. TRANSPORTATION INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

Highway / Rail (Bulk): Not Regulated

Highway / Rail (Non-Bulk): Not Regulated

INTERNATIONAL INFORMATION

Vessel (IMDG): Not Regulated

Air (ICAO): Not Regulated

15. REGULATORY INFORMATION

INVENTORIES:

AUSTRALIAN Inventory: May required notification before sale.

CANADIAN DSL Inventory: All components listed.

CHINESE Inventory: May required notification before sale.

EUROPEAN EC/EINECS: All components listed.

JAPANESE ENCS: May required notification before sale.

KOREAN Inventory: May required notification before sale.

PHILIPPINE Inventory (PICCS): All components listed.

U.S. Inventory (TSCA): All components listed.

U.S. SARA SECTION 313: This product contains the following SARA, Title III, Section 313 Reportable Chemical: Antimony compounds

U.S. SARA 311 / 312 CATEGORIES

Acute:

Chronic:

Fire:

Pressure:

Reactive:

Not Regulated: X

16. OTHER INFORMATION

This mixture may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, Magie Bros. must rely upon the hazard evaluation of such component submitted to Magie Bros. by that product's manufacturer or importer.

indicates revised section.

Prepared By:
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The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

End of MSDS

Questions can be directed to our [MSDS administrator](#).



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