13599 - WHITE LITHIUM GREASE (AEROSOL)

MATERIAL SAFETY DATA SHEET
WHITE LITHIUM GREASE (AEROSOL)

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME WHITE LITHIUM GREASE (AEROSOL)

Product number 842050

PRODUCT USE Aerosol Lubricating Grease

SUPPLIER Chemtool Incorporated
P.O. Box 538, 8200 Ridgefield Road
Crystal Lake, IL 60039-0538 USA
Internet: www.chemtool.com
Tel: (815) 459-1250
Fax: (815) 459-1955

EMERGENCY TELEPHONE INFOTRAC
U.S. and Canada - (800) 535-5053
Outside the U.S. and Canada - +01-352-323-3500

Date of last issue 2007-03-22

2. COMPOSITION AND INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS No.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>*LITHIUM COMPLEX THICKENER</td>
<td>Proprietary</td>
<td>3-7 %</td>
</tr>
<tr>
<td>LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED**(2)</td>
<td>Mixture</td>
<td>30-50 %</td>
</tr>
<tr>
<td>*HEPTANE</td>
<td>142-82-5</td>
<td>30-40 %</td>
</tr>
<tr>
<td>*PROPANE</td>
<td>74-98-6</td>
<td>10-20 %</td>
</tr>
<tr>
<td>ZINC OXIDE (ZnO)</td>
<td>1314-13-2</td>
<td>&lt;1.15 %</td>
</tr>
<tr>
<td>*TITANIUM DIOXIDE (TiO2)</td>
<td>13463-67-7</td>
<td>&lt;0.5 %</td>
</tr>
<tr>
<td>*PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS</td>
<td>68649-42-3</td>
<td>&lt;0.75 %</td>
</tr>
</tbody>
</table>

* This chemical(s) is hazardous according to OSHA/WHIMIS criteria

**(2) The base oil for this product can be a mixture of any of the following highly refined petroleum streams:

CAS 64741-88-4; CAS 64741-89-5; CAS 64741-96-4; CAS 64741-97-5; CAS 64742-01-4; CAS 64742-52-5; CAS 64742-53-6; CAS 64742-54-7; CAS 64742-55-8; CAS 64742-56-9; CAS 64742-57-0; CAS 64742-62-7; CAS 64742-63-8; CAS 64742-65-0; CAS 72623-83-7; CAS 72623-85-9; CAS 72623-86-0; CAS 72623-87-1.

Carcinogenicity: The petroleum base oils contained in this product have been highly refined by a variety of processes including solvent extraction, solvent dewaxing and
hydrotreating to remove aromatics and improve performance characteristics. None of the oils used are listed as a carcinogen by NTP, IARC, or OSHA.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Extremely flammable liquid or liquefied gas. Contents under pressure. Irritating to skin. Harmful: may cause lung damage if swallowed.

HEALTH HAZARDS, GENERAL

Harmful: danger of serious damage to health by prolonged exposure through inhalation. Irritating to eyes and skin.

SENSITIZATION

No known information.

CARCINOGENICITY

OSHA: Not regulated. NTP: Not listed. IARC: Not listed as a Group 1, 2A, or 2B agent. See Section 11 for carcinogenicity data of ingredients.

HEALTH WARNINGS

INHALATION. The solvent vapors can be harmful and cause headache, nausea and intoxication. SKIN CONTACT. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Irritating. INGESTION. Since the quantity in an aerosol can is limited, and the product is hard to ingest, the toxicity risk is deemed to be small.

ROUTE OF ENTRY

Inhalation. Skin and/or eye contact. Ingestion. Skin absorption.

4. FIRST AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration. Get medical attention.

EYES

Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

SKIN

Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

INGESTION

DO NOT INDUCE VOMITING! Get medical attention immediately!

5. FIRE FIGHTING MEASURES

FLASH POINT (°C)

- 104 (-156 F)

FLAMMABILITY LIMIT - LOWER(%) 1.2

FLAMMABILITY LIMIT - UPPER(%) 9.5

EXTINGUISHING MEDIA

Use: Foam. Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Use water spray to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures. Vapors from this product may be moved by air currents and ignited by ignition sources.

UNUSUAL FIRE & EXPLOSION HAZARDS

Pressure will increase in over heated, closed containers.

HAZARDOUS COMBUSTION PRODUCTS

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Minimize skin contact. Avoid breathing vapors. Wear an appropriate respirator if exposure exceeds recommended guidelines.

PRECAUTIONS TO PROTECT THE ENVIRONMENT
Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.

SPILL CLEAN-UP PROCEDURES
Contain spill. Neutralize and absorb small amounts. Collect and return large amounts to shipping container. Rinse spill area with water.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS
Avoid eye contact. Eye wash station should be available at the work place.

STORAGE PRECAUTIONS
Store separate from strong acids and oxidizers. Keep away from heat, sparks and open flame.

STORAGE CRITERIA
Flammable compressed gas storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>STD</th>
<th>TWA</th>
<th>STEL</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED**(2)</td>
<td>OSHA</td>
<td>5 mg/m3 (oil mist)</td>
<td>5 mg/m3 (oil mist) 10 mg/m3 (oil mist)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>500 ppm</td>
<td>N/E</td>
<td>5 mg/m3 (oil mist)</td>
<td>10 mg/m3 (oil mist)</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>400 ppm</td>
<td>500 ppm</td>
<td>5 mg/m3 (oil mist)</td>
<td>10 mg/m3 (oil mist)</td>
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<tr>
<td></td>
<td>NIOSH</td>
<td>85 ppm</td>
<td>440 ppm (cell)</td>
<td>5 mg/m3 (oil mist)</td>
<td>10 mg/m3 (oil mist)</td>
</tr>
<tr>
<td>HEPTANE</td>
<td>OSHA</td>
<td>1000 ppm</td>
<td>N/E</td>
<td>5 mg/m3 (oil mist)</td>
<td>10 mg/m3 (oil mist)</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>1000 ppm</td>
<td>(C1-C4 Alkanes)</td>
<td>5 mg/m3 (oil mist)</td>
<td>10 mg/m3 (oil mist)</td>
</tr>
<tr>
<td>PROPANE</td>
<td>OSHA</td>
<td>15 mg/m3 (total)</td>
<td>5 mg/m3 (resp)</td>
<td>5 mg/m3 (resp)</td>
<td>10 mg/m3 (resp)</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>2 mg/m3 (resp)</td>
<td>10 mg/m3 (resp)</td>
<td>10 mg/m3 (resp)</td>
<td>10 mg/m3 (resp)</td>
</tr>
<tr>
<td>ZINC OXIDE (ZnO)</td>
<td>OSHA</td>
<td>15 mg/m3 (total)</td>
<td>**A4</td>
<td>10 mg/m3 (total)</td>
<td>**A4</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE (TiO2)</td>
<td>OSHA</td>
<td>15 mg/m3 (total)</td>
<td>**A4</td>
<td>10 mg/m3 (total)</td>
<td>**A4</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>2 mg/m3 (resp)</td>
<td>10 mg/m3 (resp)</td>
<td>10 mg/m3 (resp)</td>
<td>10 mg/m3 (resp)</td>
</tr>
<tr>
<td></td>
<td>NIOSH</td>
<td>LFC **Ca</td>
<td>10 mg/m3 (resp)</td>
<td>10 mg/m3 (resp)</td>
<td>10 mg/m3 (resp)</td>
</tr>
</tbody>
</table>

INGREDIENT COMMENTS
**ACGIH A4: Not Classifiable as a Human Carcinogen.
**NIOSH LFC: Lowest Feasible Concentration.
**NIOSH Ca: Potential Occupational Carcinogen.

PROTECTIVE EQUIPMENT
ENGINEERING CONTROLS
Use engineering controls to reduce air contamination to permissible exposure level.

VENTILATION
No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

RESPIRATORS
No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

PROTECTIVE GLOVES
Chemical resistant gloves recommended to prevent prolonged or repeated contact.

EYE PROTECTION
Wear splash-proof eye goggles to prevent any possibility of eye contact.

PROTECTIVE CLOTHING
Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENIC WORK PRACTICES
Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE
Aerosol.

COLOR
White.

ODOR
Mild (or faint). Solvent.

SOLUBILITY DESCRIPTION
Insoluble in water.

DENSITY
0.77

Temperature (°C)
15.6 (60°F)

VAPOR DENSITY (air=1)
> 1

EVAPORATION RATE
< 1

Reference
BuAc=1

10. STABILITY AND REACTIVITY

STABILITY
Normally stable.

CONDITIONS TO AVOID
Avoid contact with acids and oxidizing substances. Avoid heat, flames and other sources of ignition.

HAZARDOUS POLYMERIZATION
Will not occur.

POLYMERIZATION DESCRIPTION
Not applicable

HAZARDOUS DECOMPOSITION PRODUCTS
Oxides of: Carbon.

11. TOXICOLOGICAL INFORMATION
12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION

There is no ecological data on the product itself.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME

Consumer commodity

DOT HAZARD CLASS

ORM-D (Other Regulated Material D).

LABEL FOR TRANSPORT
15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>SARA 30</th>
<th>CERCLA</th>
<th>SARA 313</th>
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<tbody>
<tr>
<td>LITHIUM COMPLEX THICKENER</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED**(2)</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>HEPTANE</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>PROPANE</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>ZINC OXIDE (ZnO)</td>
<td>No</td>
<td>***</td>
<td>N982 - Zn</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE (TiO2)</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS</td>
<td>No</td>
<td>***</td>
<td>N982 - Zn</td>
</tr>
</tbody>
</table>

REGULATORY STATUS

*** Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section 313.

CLEAN AIR ACT

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAA Accidental Release Prevention</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPANE</td>
<td>10 000 lbs</td>
</tr>
</tbody>
</table>

SARA HAZARD CATEGORIES

Acute Chronic Fire

US STATE REGULATIONS
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED**(2) Yes Yes
ZINC OXIDE (ZnO) Yes EH
PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS Yes Yes EH

STATE REGULATORY STATUS

CALIFORNIA PROPOSITION 65: This product ***DOES NOT*** contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required.

PENNSYLVANIA RIGHT-TO-KNOW: This product contains the following chemicals that the state of Pennsylvania has identified as Special Hazardous Substances (SHS), Environmental Hazards (EH), or both (ESHS). The PA regulations require that the MSDS identify all SHS or EH chemicals by chemical name, common name, and CAS Number if they comprise 0.01% or more.

Zinc compounds regulated under CERCLA and SARA 313, Environmental Hazard
Antimony compounds regulated under CERCLA and SARA 313, Environmental Hazard <0.15%

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.

LABEL(S) FOR SUPPLY

CONTROLLED PRODUCT CLASSIFICATION

B5 - Flammable Aerosols
D2B - Irritating and/or Chronically Toxic Materials

Risk phrases

R-12 Extremely flammable.
R-38 Irritating to skin.
R-65 Harmful: may cause lung damage if swallowed.

GLOBAL INVENTORIES

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAN</th>
<th>US</th>
<th>EU</th>
<th>AUS</th>
<th>JAP</th>
<th>KOR</th>
<th>PHLP</th>
<th>CHN</th>
</tr>
</thead>
<tbody>
<tr>
<td>LITHIUM COMPLEX THICKENER</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
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<td>LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED**(2)</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
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<tr>
<td>HEPTANE</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>PROPANE</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>ZINC OXIDE (ZnO)</td>
<td>NPRI</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>TITANIUM DIOXIDE (TiO2)</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS</td>
<td>NPRI</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

COMPONENT

HEPTANE TSCA 12(b) Export Notification

YES

TSCA 12(b) NOTICE: This product contains one or more components that require reporting under TSCA Section 12(b) when exported. This product may be subject to US EPA requirements for annual or one-time export notification per country. Contact the Regulatory Compliance Manager for more information.
CANADA CEPA: All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).

16. OTHER INFORMATION

NFPA-HMIS HAZARD RATING

HEALTH
Irritation, minor residual injury (1) - HMIS/NFPA

FLAMMABILITY
Extremely flammable (4) - HMIS/NFPA

REACTIVITY
Normally Stable (0) - HMIS/NFPA

PERSONAL PROTECTION INDEX
B - Safety Eyewear and Gloves

REVISION COMMENTS
Section 3: Carcinogenicity
Section 11: Toxicological Information
Section 15: Inventory Status

PREPARED BY
James W. Hermann

Replacement of MSDS generated 2006-08-29

DATE 2007-03-22

DISCLAIMER
While the information and recommendations set forth herein are believed to be accurate as of the date thereof, the company makes no warranty with respect thereto and disclaims all liability from reliance therein.

* Information revised since previous MSDS version

PRINTING DATE: 2007-05-24