MSDS Document

Product Dynatex® 49595 White Lithium Grease

1. Chemical Product and Company Identification

Trade Name of this Product Dynatex® 49595 White Lithium Grease
MSDS ID DYN49595

Manufacturer
Dynatex Inc.
350 Ring Road
Elizabethtown, KY 42701

Phone Number
(270) 769-3385

Emergency Phone
CHEMTREC (800) 424-9300

Revision Date 7/19/2011

2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Weight %</th>
<th>ACGIH TLV</th>
<th>PEL</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lubricating oils, petroleum, base oils, highly refined</td>
<td>Mixture</td>
<td>80% - 93%</td>
<td>5 mg/m̈</td>
<td>5 mg/m̈</td>
<td></td>
</tr>
<tr>
<td>Lithium complex thickener</td>
<td>Proprietary</td>
<td>5% - 12%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phosphorodithioic acid, O-O-Di-C1-14-alkyl esters, zinc salts</td>
<td>68649-42-3</td>
<td>1% - 2%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antimony dialkyldithiocarbamate</td>
<td>NJTSRN 800983-5015</td>
<td>&lt; 0.3 %</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Hazard Identification

Emergency Overview
Not regarded as a health hazard under current legislation. Exposure to vapors generated at high temperatures may cause respiratory irritation.
**Sensitization**
No known information

**Carcinogenicity**
IARC: Not listed as a Group 1, 2A, or 2B agent
OSHA: Not regulated
NTP: Not listed

**Teratogenicity**
No known information

**Health Warnings**

**SKIN CONTACT**
Repeated or prolonged contact can result in drying of the skin.

**EYE CONTACT**
Irritating

**INGESTION**
Can cause stomach ache and vomiting.

**INHALATION**
Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product.

**Primary Routes of Entry**
Eye contact, ingestion, inhalation, skin contact

### 4. First Aid Information

**Inhalation**
Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. Get medical attention if any discomfort continues.

**Eye Contact**
Rinse with water. Contact physician if discomfort continues.

**Skin Contact**
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**
224C 435F

**FP Method**
COC
Flammability Limits
LFL: Not determined
UFL: Not determined

Flammability Class
No Uniform Fire Code noted

Extinguishing Media
Foam, carbon dioxide, dry chemicals, sand, dolomite, etc.

Special Fire Fighting Procedures
Use water to keep fire-exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposure and to dilute spills to non-flammable mixtures. Keep run-off out of sewers and water sources. Dike for water control.

Unusual Fire & Explosion Hazards
Volume and pressure increases strongly when heated. Risk of container explosion in fire. Explosion risk when heated. Aerosol cans may explode in case of fire.

Hazardous Combustion Products

6. Accidental Release Measures

Personal Precautions
Minimize skin contact. Avoid breathing vapors. Wear an appropriate respirator if exposure exceeds recommended guidelines. Remove sources of ignition.

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
Carefully collect spilled material in closed containers and leave for disposal according to local regulations. Provide good ventilation. Use appropriate protective clothing. Rinse area with water. Do not let washing down water. Do not let washing down water contaminate ponds or waterways.

7. Handling and Storage

Handling Precautions
Keep away from heat, sparks, and open flames. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Avoid spilling, skin and eye contact. Eye wash and emergency shower must be available at the work place. Containers to be kept tightly.

Storage Precautions
Keep away from heat, sparks and open flame. Store separated from oxidizing materials, acids.
8. Exposure Controls and Personal Protection

**Exposure Limits**
Lubricating oils, petroleum, base oils, highly refined
OSHA  TWA 5 mg/m³ (oil mist)
ACGIH  TWA 5 mg/m³ (oil mist)  STEL 10 mg/m³ (oil mist)

Antimony dialkyldithiocarbamate
OSHA  TWA 5 mg/m³ as Sb
ACGIH  TWA 5 mg/m³ as Sb

**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.

**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 required for 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Grease</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.9</td>
</tr>
<tr>
<td>Color/Appearance</td>
<td>Amber</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild (faint) petroleum odor</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt; 1 (BuAc=1)</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>&gt; 5 (air=1)</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&lt; 0.1 mm Hg @ 20C</td>
</tr>
</tbody>
</table>

**Note**
The above information is not intended for use in preparing product specifications. Contact Accumetric LLC before writing specifications.
10. Stability and Reactivity

**Chemical Stability**
Stable

**Conditions to Avoid**
Avoid contact with acids and oxidizing substances.

**Hazardous Polymerization**
Will not occur

**Hazardous Decomposition Products**
Oxides of carbon, phosphorus, sulfur

11. Toxicological Information

**Toxicological Information**
No experimental toxicological data on the preparation as such is available.

**Component Toxicological Information**
Lubricating oils, petroleum, base oils, highly refined
Carcinogenicity. IP 346 <3%
LD50 >5,000 mg/kg (oral rat)
LD50 skin >2,000 mg/kg (skin rbt)
LC50 N/A

12. Ecological Information

**Environmental Fate and Distribution**
Complete information is not yet available.

**Environmental Effects**
Complete information is not yet available.

**Fate and Effects in Waste Water Treatment Plants**
Complete information is not yet available.

13. Disposal Considerations

We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

14. Transportation Information

**DOT Road Shipment Information**
Not subject to DOT.
Air Shipment (IATA)  
Not subject to IATA regulations.

Ocean Shipment (IMDG)  
Not subject to IMDG code.

15. Regulatory Information  

US Federal Regulations  
Lubricating oils, petroleum, base oils, highly refined  
SARA 302  No  
CERCLA No  
SARA 313  No  

Lithium complex thickener  
SARA 302  No  
CERCLA No  
SARA 313  No  

Phosphorodithioic acid, O,O-DI-C1-14-alkyl esters, zinc salts  
SARA 302  No  
CERCLA ***  
SARA 313  N982 - Zn  

Antimony dialkydithiocarbamate  
SARA 302  No  
CERCLA ***  
SARA 313  N010 - Ab  

*** Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See Federal Register 13456 (April 4, 1985).

Values in Section 313 column represent Category Codes for reporting under Section 313.

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.

Minnesota  
Phosphorodithioic acid, O,O-DI-C1-14-alkyl esters, zinc salts  
Antimony dialkydithiocarbamate

New Jersey  
Lubricating oils, petroleum, base oils, highly refined  
Phosphorodithioic acid, O,O-DI-C1-14-alkyl esters, zinc salts
**Pennsylvania**  
Lubricating oils, petroleum, base oils, highly refined  
Phosphorodithioic acid, O,O-DI-C1-14-alkyl esters, zinc salts  
Antimony dialkyldithiocarbamate  

**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 (ESH). 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  

**Composition Comments**  
The base oil for this product can be a mixture of any of the following highly refined petroleum streams:  
64741-88-4; 64741-89-5; 64741-96-4; 64741-97-5; 64742-01-4; 64742-52-5; 64742-53-6; 64742-54-7; 64742-55-8; 64742-56-9; 64742-57-0; 64742-62-7; 64742-63-8; 64742-65-0; 72623-83-7; 72623-85-9; 72623-86-0; 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.  

**16. Other Information**  

**Disclaimer**  
The data contained herein is based upon information that Accumetric LLC believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.