**PRODUCT DATA SHEET**

**CODE:**

**PRODUCT TYPE:** Biodegradable Hammer Grease

**NLGI GRADE:** 1

<table>
<thead>
<tr>
<th>ASTM METHOD</th>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-217</td>
<td>Penetration Worked</td>
<td>310-340</td>
</tr>
<tr>
<td></td>
<td>Thickener Type</td>
<td>Lithium 12-OH Stearate</td>
</tr>
<tr>
<td>D-128</td>
<td>Thickener Percent</td>
<td>8 - 10</td>
</tr>
<tr>
<td></td>
<td>Color</td>
<td>Dark Amber</td>
</tr>
<tr>
<td></td>
<td>Texture</td>
<td>Smooth</td>
</tr>
<tr>
<td>D-2265</td>
<td>Dropping Point °F</td>
<td>350</td>
</tr>
<tr>
<td></td>
<td>Fluid Type</td>
<td>Vegetable Oil</td>
</tr>
<tr>
<td>D-445</td>
<td>Viscosity @ 100°F, SUS</td>
<td>155</td>
</tr>
<tr>
<td>D-445</td>
<td>Viscosity @ 210°F, SUS</td>
<td>51</td>
</tr>
<tr>
<td>D-2270</td>
<td>Viscosity Index</td>
<td>165</td>
</tr>
<tr>
<td>D-2596</td>
<td>4-Ball EP Weld, kg</td>
<td>400</td>
</tr>
</tbody>
</table>

03/08/05
MATERIAL SAFETY DATA SHEET

Product Name
Biodegradable Hammer Grease

Code No.
LS-912

Chemical Name
Lubricating Grease

Synonyms
Biodegradable Grease

MATERIALS OR COMPONENTS

% W

CAS NUMBER

CARCINOGEN OR.mlARC

INGREDIENTS

Non Restricted.

Boiling Point / Range

°C

> 700 °F

Melting Point

N/A

°C

°F

Freezing Point

N/A

°C

°F

Molecular Weight (Calculated)

N/A

Specific Gravity (H2O=1)

0.92 @

/ 16 °C

Vapor Pressure (mm Hg)

N/A @

°C

°F

Vapor Density (Air=1)

N/A

Solubility in H2O

N/A

% Volatiles By Volume

0

Evaporation Rate

N/A

Water=1

Butylacetate=1

Appearance and Odor

Semi-Solid – Vegetable Oil Odor

Flash Point

°C

610 °F

Test Method

D-92

Flammable Limits

Lower N/A %

Upper %

Autoignition Temperature/Fire Point

°C

640 °F

EXTINGUISHING MEDIA

☐ Water-Spray

☐ Water-Fog

☐ Water-Stream

☐ CO2

☐ Dry Chemical

☐ Alcohol Foam

☐ Foam

☐ Earth or Sand

SPECIAL FIRE FIGHTING PROCEDURES

☐ Do Not Enter Building

☐ Allow Fire To Burn

☐ Water May Cause Frothing

☐ Do Not Use Water

UNUSUAL FIRE AND EXPLOSION HAZARDS

☐ Dust Explosion Hazard

☐ Sensitive To Shock

☐ Contamination

☐ Temperature

☐ Other (Specify): None

STABILITY

☐ Stable

☐ Unstable

☐ Conditions Contributing To Instability

☐ Thermal Decomposition

☐ Photo Degradation

☐ Polymerization

☐ Contamination

INCOMPATIBILITY – AVOID CONTACT WITH

☐ Strong Acids

☐ Strong Alkalis

☐ Strong Oxidizers

☐ Other (Specify):

HAZARDOUS DECOMPOSITION PRODUCTS – THERMAL AND OTHER (LIST)

Oxides of carbon and sulfur if burned.

CONDITIONS TO AVOID

☐ Heat

☐ Open Flames

☐ Sparks

☐ Ignition Sources

☐ Other (Specify):

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

☐ Flush With Water

☐ Absorb With Sand Or Inert Material

☐ Neutralize

☐ Sweep Or Scoop Up And Remove

☐ Keep Upwind

☐ Evacuate Enclosed Spaces

☐ Prevent Spread Or Spill

☐ Dispose Of Immediately

☐ Other (Specify):

WASTE DISPOSAL METHOD – CONSULT FEDERAL, STATE, OR LOCAL AUTHORITIES FOR PROPER DISPOSAL PROCEDURES

Incinerate

Before using product, read and follow directions and precautions on product label and bulletins.

CONTINUED ON REVERSE SIDE
Product Name: Biodegradable Hammer Grease  

**CONDITIONS TO AVOID:** Excessive skin contact  

**PRIMARY ROUTES OF ENTRY:**  
- Inhalation  
- Skin contact  
- Other (specify):  

Products of this type have been used for years with no known ill effects. This product contains no carcinogens or mutagens as defined by OSHA or IARC. All components are listed on the TSCA Inventory, and Canadian DSL Chemical Inventory. This Product contains no controlled substance under WHMIS.

**SARA Title III, Section 313, Reportable Quantities:**

<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS#</th>
<th>% Wt.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
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**WHMIS Ingredient Disclosure, Reportable Quantities:**

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<td>None</td>
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**PERMISSIBLE EXPOSURE LIMIT (Specify if TLV/TWA or ceiling):**

| ACGIH 20 | OSHA 2005 | None Established |

**IRRITATION**  
- Skin: Severe  
- Eye: Severe  
- Moderate: MILD (TRANSIENT)  
- Other (specify):  

**CORROSIVITY**  
- Skin: 4 HRS. (DOT)  
- Eye: MAY CAUSE BLINDNESS  
- Other (specify): NOT CORROSIVE  

**SENSITIZATION**  
- Skin: INHALATION EFFECTS  
- Other (specify): N/A  

**LUNG EFFECTS (SPECIFY):**  
- Respiratory: None  
- Other (specify): N/A  

**INGESTION**  
- Do not induce vomiting  
- Give plenty of water  
- Get medical attention  
- Other (specify):  

**DERMAL**  
- Flush with soap and water  
- Get medical attention  
- CONTAMINATED CLOTHING - REMOVE AND LAUNDER  
- Other (specify):  

**EYE CONTACT**  
- Flush with plenty of WATER FOR AT LEAST 15 MIN.  
- Get medical attention  
- Other (specify):  

**INHALATION**  
- Remove to fresh air  
- If not breathing, give artificial respiration  
- Get medical attention  
- Other (specify):  

**VENTILATION REQUIREMENTS - Always maintain exposure below permissible exposure limits:**  
- Consult an industrial hygienist or environmental health specialist  
- Local exhaust  
- Use with adequate ventilation  
- Check for air contaminant and oxygen deficiency  
- Other (specify):  

**EYE PROTECTION**  
- FACR  
- Hand (Glove type): Butyl rubber  
- Polyisoprene  
- Natural rubber  
- Other (specify):  

**FACE PROTECTION**  
- Safety glasses  
- Goggles  
- Respirator type: Use only NIOSH / MESA approved equipment  
- Self-contained  
- Supplied air  
- Cartridge gas or vapor  
- Filter-dust, fume, mist  
- Other (specify):  

**OTHER PROTECTIVE EQUIPMENT**  
- Rubber boots  
- Apron  
- Other (specify): None  

**PRECAUTIONARY NOTES**  
- Do not get in eyes or on clothing  
- Do not breathe dust, vapor, mist, gas  
- Keep container CLOSERED  
- Keep away from sparks, and open flames  
- Store in tightly closed container  
- Wash thoroughly after handling  
- Do not store near combustibles  
- Keep from contact with clothing and other combustible materials  
- Empty container may contain hazardous residue  
- Use explosion proof equipment  
- Other (specify):  

**OTHER HANDLING AND STORAGE CONDITIONS**  
- No Special Conditions