1. PRODUCT AND COMPANY IDENTIFICATION

Dow Corning Corporation
South Saginaw Road
Midland, Michigan 48686

24 Hour Emergency Telephone: (989) 496-5900
Customer Service: (989) 496-6000
Product Disposal Information: (989) 496-6315
CHEMTREC: (800) 424-9300

MSDS No.: 01889753
Revision Date: 2005/05/09

Generic Description: Molybdenum disulfide grease
Physical Form: Grease
Color: Black
Odor: Slight odor

NFPA Profile: Health 1 Flammability 1 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

2. OSHA HAZARDOUS COMPONENTS

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<th>Wt %</th>
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<td>15748-73-9</td>
<td>&lt;1.0</td>
<td>Lead salicylate</td>
</tr>
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</table>

The above components are hazardous as defined in 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

Potential Health Effects

Acute Effects

Eye: Direct contact may cause mild irritation.

Skin: No significant irritation expected from a single short-term exposure.

Inhalation: Vapor overexposure may cause drowsiness.

Oral: Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects
### MOLYKOTE(R) BR-2 PLUS MULTI-PURPOSE E.P. GREASE

**Skin:** Repeated or prolonged contact may cause defatting and drying of skin which may result in skin irritation and dermatitis.

**Inhalation:** No known applicable information.

**Oral:** Repeated ingestion or swallowing large amounts may injure internally.

#### Signs and Symptoms of Overexposure

No known applicable information.

#### Medical Conditions Aggravated by Exposure

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

### 4. FIRST AID MEASURES

**Eye:** Immediately flush with water for 15 minutes.

**Skin:** Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.

**Inhalation:** Remove to fresh air. Get medical attention if ill effects persist.

**Oral:** Get medical attention.

**Comments:** Treat according to person's condition and specifics of exposure.

### 5. FIRE FIGHTING MEASURES

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not determined.

**Flammability Limits in Air:** Not determined.

**Extinguishing Media:** On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO2), dry chemical or water spray. Water can be used to cool fire exposed containers.

**Fire Fighting Measures:** Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Determine the need to evacuate or isolate the area according to your local emergency plan.

**Unusual Fire Hazards:** None.

**Hazardous Decomposition Products**
MOLYKOTE(R) BR-2 PLUS MULTI-PURPOSE E.P. GREASE

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Metal oxides. Fluorine compounds. Carbon oxides and traces of incompletely burned carbon compounds. Sulfur oxides. Phosphorous oxides. Formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

Containment/Clean up: Observe all personal protection equipment recommendations described in Sections 5 and 8. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See section 8 for Personal Protective Equipment for Spills. Call (989) 496-5900, if additional information is required.

7. HANDLING AND STORAGE

Use with adequate ventilation. Review the OSHA lead standard for more detailed information on safe handling requirements for compliance. Avoid eye contact. Avoid skin contact. Avoid breathing vapor. Keep container closed. Do not take internally.

Use reasonable care and store away from oxidizing materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
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<th>Exposure Limits</th>
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</thead>
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<td>Observe oil mist limits. OSHA PEL (final rule) and ACGIH TLV: TWA 5 mg/m3; ACGIH STEL 10 mg/m3.</td>
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<tr>
<td>15748-73-9</td>
<td>Lead salicylate</td>
<td>OSHA PEL, as lead: TWA 30 mg/m3. ACGIH TLV: TWA 0.15 mg/m3.</td>
</tr>
</tbody>
</table>

Engineering Controls

Local Ventilation: Recommended.
**MOLYKOTE(R) BR-2 PLUS MULTI-PURPOSE E.P. GREASE**

**General Ventilation:** Recommended.

**Personal Protective Equipment for Routine Handling**

**Eyes:** Use proper protection - safety glasses as a minimum.

**Skin:** Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

**Suitable Gloves:** Neoprene Rubber(R). Nitrile Rubber. Polyvinylalcohol.

**Inhalation:** Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in judging the adequacy of existing engineering controls.

**Suitable Respirator:** General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

**Personal Protective Equipment for Spills**

**Eyes:** Use full face respirator.

**Skin:** Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

**Inhalation/Suitable Respirator:** Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**Precautionary Measures:** Avoid eye contact. Avoid skin contact. Avoid breathing vapor. Keep container closed. Do not take internally. Use reasonable care.

**Comments:** Review the OSHA lead standard for more detailed information on safe handling requirements for compliance.

**Note:** These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical Form:** Grease  
**Color:** Black  
**Odor:** Slight odor
MOLYKOTE(R) BR-2 PLUS MULTI-PURPOSE E.P. GREASE

Specific Gravity @ 25°C: 0.89  
Viscosity: Not determined.  
Freezing/Melting Point: Not determined.  
Boiling Point: Not determined.  
Vapor Pressure @ 25°C: Not determined.  
Vapor Density: Not determined.  
Solubility in Water: Not determined.  
Ph: Not determined.  
Volatile Content: Not determined.

Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Hazardous Polymerization: Hazardous polymerization will not occur.

Conditions to Avoid: None.

Materials to Avoid: Oxidizing material can cause a reaction.

11. TOXICOLOGICAL INFORMATION

Special Hazard Information on Components

Carcinogens

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Wt %</th>
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</tr>
</thead>
</table>
| 15748-73-9  | <1.0 | Lead salicylate  
NTP - Reasonably Anticipated to be a Human Carcinogen. Lead compound.

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.
MOLYKOTE(R) BR-2 PLUS MULTI-PURPOSE E.P. GREASE

Ecotoxicity Classification Criteria

<table>
<thead>
<tr>
<th>Hazard Parameters (LC50 or EC50)</th>
<th>High</th>
<th>Medium</th>
<th>Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Aquatic Toxicity (mg/L)</td>
<td>&lt;=1</td>
<td>&gt;1 and &lt;=100</td>
<td>&gt;100</td>
</tr>
<tr>
<td>Acute Terrestrial Toxicity</td>
<td>&lt;=100</td>
<td>&gt;100 and &lt;=2000</td>
<td>&gt;2000</td>
</tr>
</tbody>
</table>

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

13. DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes

TCLP: D008

State or local laws may impose additional regulatory requirements regarding disposal.

Call (989) 496-6315, if additional information is required.

14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Not subject to DOT.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

15. REGULATORY INFORMATION


TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances (40 CFR 355):
   None.

Section 304 CERCLA Hazardous Substances (40 CFR 302):

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MOLYKOTE(R) BR-2 PLUS MULTI-PURPOSE E.P. GREASE

1338-24-5  0.4  Naphthenic acids

Section 311/312 Hazard Class (40 CFR 370):
Acute: Yes
Chronic: Yes
Fire: No
Pressure: No
Reactive: No

Section 313 Toxic Chemicals (40 CFR 372):
None present or none present in regulated quantities.

Supplemental State Compliance Information

California
Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

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<td></td>
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<td>Female reproductive toxin.</td>
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<tr>
<td></td>
<td></td>
<td>Developmental toxin.</td>
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<td></td>
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<td>Carcinogenic.</td>
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Massachusetts

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<td>5.0 - 10.0</td>
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New Jersey

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### 16. OTHER INFORMATION

Prepared by: Dow Corning Corporation

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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