

**DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET**

MOLYKOTE(R) EM-30L GREASE

| SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION | |
|---|--|
| Dow Corning Corporation South Saginaw Road Midland, Michigan 48686 | 24 Hour Emergency Telephone: (517) 496-5900 Customer Service: (517) 496-6000 Product Disposal Information: (517) 496-6315 CHEMTREC: (800) 424-9300 |
| MSDS No: 01851721 | Current Version: 03/26/97 |
| Generic Description: Inorganic and organic compounds in synthetic oil Physical Form: Grease Color: White Odor: Slight odor NFPA Profile: Health 2 Flammability 1 Reactivity 0 | |
| Note: NFPA = National Fire Protection Association | |

| SECTION 2. OSHA HAZARDOUS COMPONENTS | | | |
|--|------------|-----------------------------|---|
| <u>CAS Number</u> | <u>Wt%</u> | <u>Component</u> | <u>Exposure Limits</u> |
| 007620771 | 8 | 12-Hydroxy lithium stearate | Observe stearates limits. ACGIH TLV: TWA 10 mg/m3. |
| 037640576 | 6 | Melamine cyanurate | None established. |
| 007758874 | 1 | Calcium phosphate | Observe particulate limits. OSHA PEL: TWA 15 mg/m3 total dust, 5 mg/m3 respirable fraction. ACGIH TLV: TWA 10 mg/m3 inhalable particulate, 3 mg/m3 respirable particulate. |
| Comments: The above components are hazardous as defined in 29 CFR 1910.1200. | | | |

| SECTION 3. EFFECTS OF OVEREXPOSURE | |
|--|---|
| <u>Acute Effects</u> | |
| Eye: | Direct contact irritates slightly with redness and swelling. |
| Skin: | A single relatively short exposure causes no known adverse effect. Several repeated or prolonged exposures (24 to 48 hours) may irritate. |
| Inhalation: | Irritates respiratory passages and eyes very slightly. |
| Oral: | Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may cause digestive discomfort. |
| <u>Repeated Exposure Effects</u> | |
| Skin: | None Known. |
| Inhalation: | None Known. |
| Oral: | None Known. |
| <u>Special Hazards</u> | |
| This material contains the following components with the special hazards listed below. | |
| <u>Carcinogens</u> | |
| None Known | |

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Teratogens

None Known

Mutagens

None Known

Reproductive Toxins

None Known

Sensitizers

None Known

Comments: Inhalation of fumes from fire decomposition of Polytetrafluoroethylene (Teflon(R)) is known to cause Polymer Fever. Please read the additional information below.

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.

SECTION 4. FIRST AID MEASURES

Eye: Immediately flush with water for 15 minutes.

Skin: No first aid should be needed.

Inhalation: No first aid should be needed.

Oral: No first aid should be needed.

Comments: Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point (Closed Cup): > 213.98 DEGREE F / 101.10 DEGREE C

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

Unusual Fire Hazards: None

Hazardous Decomposition Products:

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

SECTION 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

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disposal. Clean area as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. 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 Dow Corning Corporation, (517)496-5900, if additional information is required.

SECTION 7. HANDLING AND STORAGE

Handling: Use with adequate ventilation. Above 482F/250C can produce highly toxic gaseous compounds such as hydrogen fluoride and perfluorohydrocarbons. Provide good ventilation or respirator if probability of exceeding 482F/250C. Avoid contamination of tobacco products. Avoid eye contact.

Storage: No special precautions. Use reasonable care and store away from oxidizing materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Local exhaust: None should be needed
General Ventilation: Recommended

Personal Protective Equipment For Routine Handling

Eyes: Use proper protection - safety glasses as a minimum.
Skin: Washing at mealtime and end of shift is adequate.
Suitable Gloves: No special protection needed.
Inhalation: No respiratory protection should be needed.
Suitable Respirator: None should be needed.

Personal Protective Equipment For Spills

Eye: Use proper protection - safety glasses as a minimum.
Skin: Washing at mealtime and end of shift is adequate.
Inhalation/
Suitable Respirator: No respiratory protection should be needed.

Precautionary Measures: Avoid eye contact. Use reasonable care.

Comments: Above 482F/250C can produce highly toxic gaseous compounds such as hydrogen fluoride and perfluorohydrocarbons. Provide good ventilation or respirator if probability of exceeding 482F/250C. Avoid contamination of tobacco products.

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

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical form: Grease
Color: White
Odor: Slight odor
Specific Gravity @ 25C: 0.90
Viscosity: Not Applicable.
Freezing/Melting Point: Not Determined.
Boiling Point: Not Applicable.
Vapor Pressure @ 25C: Not Applicable.
Vapor Density: Not Applicable.
Solubility in Water: Not Determined.
pH: Not Applicable.
Volatile content: Not Applicable.

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

SECTION 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.
Comments: None

SECTION 11. TOXICOLOGICAL INFORMATION

OPTIONAL SECTION - Complete information not yet available.

SECTION 12. ECOLOGICAL INFORMATION

OPTIONAL SECTION - Complete information not yet available.

SECTION 13. DISPOSAL INFORMATION

RCRA Hazard Class (40CFR 261)

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

Federal Hazardous Waste Code: NA

Characteristic Waste: Ignitable: NA Corrosive: NA Reactive: NA

TCLP: NA

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

NA = Not Applicable

Call Dow Corning Corporate Environmental Management, (517)496-6315, if additional information is required.

SECTION 14. TRANSPORT INFORMATION

DOT Information (49CFR 172.101)

Proper Shipping Name: Not Applicable

Hazard Technical Name: Not Applicable

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| | |
|--|----------------|
| Hazard Class: | Not Applicable |
| UN/NA Number: | 0000 |
| Packing Group: | NA |
| 0000 and NA = Not Applicable | |
| Call Dow Corning Transportation, (517)496-8577, if additional information is required. | |

SECTION 15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

TSCA Status: All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances:
None

Section 304 CERCLA Hazardous Substances:
None

Section 312 Hazard Class:
Acute: N
Chronic: N
Fire: N
Pressure: N
Reactive: N

Y = Yes N = No

Section 313 Toxic Chemicals:
None present or none present in regulated quantities.

Supplemental State Compliance Information

| <u>CAS Number</u> | <u>Wt%</u> | <u>Component</u> |
|-------------------|------------|------------------|
|-------------------|------------|------------------|

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.

None Known.

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 birth defects or other reproductive harm.

None Known.

Massachusetts

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No ingredient regulated by MA Right-to-Know Law present.

New Jersey

| | | |
|-----------|----|---------------------------------|
| 068037014 | 79 | Hydrogenated decene homopolymer |
| 007620771 | 8 | 12-Hydroxy lithium stearate |
| 037640576 | 6 | Melamine cyanurate |
| 009002840 | 4 | Polytetrafluoroethylene |
| 007758874 | 1 | Calcium phosphate |

Pennsylvania

| | | |
|-----------|----|---------------------------------|
| 068037014 | 79 | Hydrogenated decene homopolymer |
| 007620771 | 8 | 12-Hydroxy lithium stearate |
| 037640576 | 6 | Melamine cyanurate |
| 009002840 | 4 | Polytetrafluoroethylene |

SECTION 16. OTHER INFORMATION

Prepared by: Dow Corning Corporation

This information is offered in good faith as typical values and not as a product specification. No warranty, 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.

(R) indicates Registered or Trademark

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