

**DOW CORNING CORPORATION  
MATERIAL SAFETY DATA SHEET**

**DOW CORNING(R) 33 EXTREME LOW TEMP. BEARING GREASE, LIGHT**

<b>SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION</b>		
Dow Corning Corporation South Saginaw Road Midland, Michigan 48686	<b>24 Hour Emergency Telephone: (517) 496-5900</b> Product Information: (517) 496-6000 Product Disposal Information: (517) 496-5813 Transportation Information: (517) 496-8577 CHEMTREC: (800) 424-9300	
MSDS No: 01889770	Print Date: 05/12/94	Last Revised: 10/22/93
Generic Description: Silicone grease Physical Form: Grease Color: Beige Odor: Slight odor NFPA Profile: Health NA Flammability 1 Reactivity 0		
Note: NFPA = National Fire Protection Association		

<b>SECTION 2. HAZARDOUS COMPONENTS</b>			
<u>CAS Number</u>	<u>Wt%</u>	<u>Component</u>	<u>Exposure Limits</u>
004485125	18	Lithium stearate	Observe stearates limits. ACGIH TLV: TWA 10 mg/m <sup>3</sup> .
033204761	<.1	2,6-cis-Diphenylhexa- methylcyclotetrasiloxane	Dow Corning guide: TWA 20 microgms/m <sup>3</sup> .
010448096	<.1	Phenylheptamethyl- cyclotetrasiloxane	Dow Corning guide: TWA 200 microgms/m <sup>3</sup> .
Comments: The above ingredients are hazardous as defined in 29 CFR 1910.1200.			

<b>SECTION 3. EFFECTS OF OVEREXPOSURE</b>	
<u>Acute Effects</u>	
Eye:	Direct eye contact may cause temporary discomfort with mild redness and dryness similar to windburn.
Skin:	A single relatively short exposure causes no known adverse effect. Several repeated or prolonged exposures (24 to 48 hours) may irritate.
Inhalation:	No irritation to eyes and respiratory passages. No injury is likely from relatively short exposures of less than 8 hours.
Oral:	Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may injure slightly.
<u>Repeated Exposure Effects</u>	
Skin:	None Known.
Inhalation:	None Known.
Oral:	Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may injure slightly.
<u>Special Hazards</u>	
This material contains the following components with the special hazards listed below.	
<u>Carcinogens</u>	
None Known	
<u>Teratogens</u>	
None Known	

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Mutagens

None Known

Reproductive Toxins

None Known

Sensitizers

None Known

Comments: This compound may contain low levels of phenyl heptamethylcyclotetra-siloxane and 2,6-cis-Diphenylhexamethylcyclotetrasiloxane which are estrogen-like chemicals. Estrogens are hormone substances which affect the reproductive system. 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.

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: No first aid should be needed.

Oral: Get medical attention.

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

**SECTION 5. FIRE FIGHTING MEASURES**

Flash Point (Method): > 214.00 DEGREE F / 101.11 DEGREE C

Autoignition Temperature: Not Determined

Flammability Limits in Air: Not Determined

Extinguishing Media: Carbon dioxide (CO2). Water. Water fog (or spray). Dry chemical. Foam.

Unsuitable Extinguishing Media: None

Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

Unusual Fire Hazards: None

Hazardous Decomposition Products: Silicon dioxide. Metal oxides. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Containment/Clean-up: Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state, and federal waste management regulations. Clean any remaining slippery surfaces by appropriate techniques, such as: several moppings or swabbings with appropriate solvents; washing with mild, caustic detergents or solutions; or high pressure steam for large areas. For nonsilicones, use typical industrial cleaning materials. Observe any safety precautions applicable to the cleaning material being used. Scrape up and contain for salvage or disposal. Observe all personal protection equipment recommendations described in Sections 5 and 8. Local, state, and

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this material into the environment. See applicable regulatory compliance information in Section 15.

NOTE: See Section 8 for Personal Protective Equipment for Spills

**SECTION 7. HANDLING AND STORAGE**

Handling: No special precautions.

Storage: No special precautions. Use reasonable care.

**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: Use at high temperatures may evolve or generate phenylheptamethyl-cyclotetrasiloxane, 2,6-cis-diphenylhexamethylcyclotetrasiloxane. Provide adequate ventilation to control within exposure guidelines (See Section 2). Personnel should wear organic vapor respirators until workplace exposure levels have been determined. Traces of benzene (carcinogen) may form if heated in air above 300 F (149 C). Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Review the OSHA benzene regulation for detailed information on safe handling requirements.

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical form: Grease  
Color: Beige  
Odor: Slight odor  
Specific Gravity @ 25C: 1.10  
Viscosity: Not Applicable.  
Freezing/Melting Point: Not Determined.  
Boiling Point: Not Applicable.

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Vapor Density: Not Applicable.  
Solubility in Water: None.  
pH: Not Applicable.  
Volatile content (Wt%): 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 CONSIDERATIONS**

OPTIONAL SECTION - Complete information not yet available.

Call Dow Corning Environmental Mgmt. (517)496-6315, if more information is desired.

**SECTION 14. TRANSPORT INFORMATION**

DOT Information (49CFR 172.101)

Proper Shipping Name: Not Available  
Hazard Technical Name: Not Available  
Hazard Class: Not Available  
UN/NA Number: Not Available  
Packing Group: Not Available

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: Y  
Chronic: Y  
Fire: N

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Reactive: N

Y = Yes N = No

Section 313 Toxic Chemicals:

None present or none present in regulated quantities.

Supplemental State Compliance Information

CAS Number                      Wt%                      Component

**Massachusetts**

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

**New Jersey**

063148527	82	Dimethyl, phenylmethyl siloxane, trimethyl-terminated
004485125	18	Lithium stearate

**Pennsylvania**

063148527	82	Dimethyl, phenylmethyl siloxane, trimethyl-terminated
004485125	18	Lithium stearate

**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.

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