### DOW CORNING CORPORATION Material Safety Data Sheet

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## MOLYKOTE(R) G-N METAL ASSEMBLY PASTE

### 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.: 02076683

Revision Date: 2009/11/30

Generic Description: Inorganic compounds in mineral oil Physical Form: Paste Color: Charcoal gray Odor: Slight odor

NFPA Profile: Health 1 Flammability 1 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

### 2. 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: Material is not likely to present an inhalation hazard at ambient conditions. However, if material is heated or high vapor concentration is attained, central nervous system depression may occur, which is characterized by drowsiness, dizziness, confusion or loss of coordination.

Oral: Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects

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: Overexposure by ingestion may injure the following organ(s): Kidneys.

### Signs and Symptoms of Overexposure

No known applicable information.

Medical Conditions Aggravated by Exposure

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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.

3. COMPOSITION/INFORMATION ON INGREDIENTS	

CAS Number Wt % Component N	Name
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7446-26-6 10.0 - 30.0 Zinc pyrophosphate

7784-30-7 1.0 - 5.0 Aluminum phosphate

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

4. FIRST AID MEASU	RES
Eye:	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes while holding the eyelid(s) open. Obtain medical attention.
Skin:	Remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. Flush with lukewarm gently flowing water for 15 minutes. If irritation persists, repeat flushing. If irritation persists, obtain medical advice.
Inhalation:	If symptoms are experienced remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.
Oral:	If irritation or discomfort occur, obtain medical advice.
Notes to Physician:	Treat according to person's condition and specifics of exposure.

5. FIRE FIGHTING MEASURES		
Flash Point:	> 212 °F / > 100 °C (Closed Cup)	
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.	

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Fire Fighting Measures: 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.

### 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. Avoid eye contact.

Use reasonable care and store away from oxidizing materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION			
Component Exposure Limits			
CAS Number	Component Name		Exposure Limits
7784-30-7	Aluminum p	hosphate	Observe aluminum (soluble salts) limits. OSHA PEL (final rule) and ACGIH TLV, as aluminum: TWA 2 mg/m3.
Engineering Controls			
Local Ventilation General Ventilati		ecommended. ecommended.	
Personal Protective Equipment for Routine Handling			
Eyes:	U	se proper protection - safety gl	lasses as a minimum.
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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:	Avoid skin contact by implementing good industrial hygiene practices and procedures. Select and use gloves and/or protective clothing to further minimize the potential for skin contact. Consult with your glove and/or personnel protective equipment manufacturer for selection of appropriate compatible materials.
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:	Respiratory protection is not needed under ambient conditions. If vapor is generated when material is heated or handled, the following is advised. 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 Equi	pment 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/MHSA 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. Use reasonable care.
Note: These precautions are added precautions.	for room temperature handling. Use at elevated temperature or aerosol/spray applications may require

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Paste
Color:	Charcoal gray
Odor:	Slight odor
Specific Gravity @ 25°C:	1.35
Viscosity:	Not determined.
Freezing/Melting Point:	
Boiling Point:	Not determined.

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Vapor Pressure @ 25°C: Not determined. Vapor Density: Not determined. Solubility in Water: Not determined. pH: Not determined. Volatile Content: Not determined. Flash Point: > 212 °F / > 100 °C (Closed Cup) Autoignition Temperature: Not determined. Flammability Limits in Air: 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 Hazardous polymerization will not occur. Polymerization:

Conditions to Avoid: None.

Materials to Avoid: Oxidizing material can cause a reaction.

Hazardous Decomposition Products

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

### **11. TOXICOLOGICAL INFORMATION**

### **Special Hazard Information on Components**

No known applicable information.

### 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

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Complete information is not yet available.

Ecotoxicity Classification Criteria				
Hazard Parameters (LC50 or EC50)	High	Medium	Low	
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100	
Acute Terrestrial Toxicity	<=100	>100 and <= 2000	>2000	
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? No

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.

Remarks: (APPLIES ONLY TO CONTAINERS LESS THAN 119 GALLONS OR 450 LITERS.)

### **Ocean Shipment (IMDG)**

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Technical Name:	Zinc pyrophosphate / Tallowalkyltriethylene diamineoleate
Hazard Class:	9
UN/NA Number:	UN 3077
Packing Group:	III
Hazard Label(s):	miscellaneous
Marine Pollutant:	Zinc pyrophosphate Tallowalkyltriethylene diamineoleate

### Air Shipment (IATA)

Not subject to IATA regulations.

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Call Dow Corning Transportation, (989) 496-8577, if additional information is required.

### **15. REGULATORY INFORMATION**

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

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): None.

### Section 311/312 Hazard Class (40 CFR 370):

Acute: No Chronic: Yes Fire: No Pressure: No Reactive: No

### Section 313 Toxic Chemicals (40 CFR 372):

CAS Number Wt % Component Name

7446-26-6 13.0 Zinc pyrophosphate

Note: Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed a reporting threshold.

### **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.

None known.

### Massachusetts

CAS Number Wt % Component Name



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64741-89-5	40.0 - 70.0	Solvent-refined light paraffinic petroleum distillate
1317-33-5	15.0 - 40.0	Molybdenum disulfide

### **New Jersey**

CAS Number	<u>Wt %</u>	Component Name
64741-89-5	40.0 - 70.0	Solvent-refined light paraffinic petroleum distillate
1317-33-5	15.0 - 40.0	Molybdenum disulfide
7446-26-6	10.0 - 30.0	Zinc pyrophosphate
1306-06-5	10.0 - 30.0	Tricalcium phosphate, hydrated
110-30-5	1.0 - 5.0	Ethylene distearylamide
7784-30-7	1.0 - 5.0	Aluminum phosphate
Pennsylvania		
CAS Number	<u>Wt %</u>	Component Name
64741-89-5	40.0 - 70.0	Solvent-refined light paraffinic petroleum distillate
1317-33-5	15.0 - 40.0	Molybdenum disulfide
7446-26-6	10.0 - 30.0	Zinc pyrophosphate

### **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.

(R) indicates Registered Trademark