

Dow Corning India Private Limited Material Safety Data Sheet

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Version: 1.1

MOLYKOTE(R) G PASTE

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 Product Name: MOLYKOTE(R) G PASTE

1.2 Manufacturer's Product Code: 02310031

1.3 Chemical Classification: Molybdenum disulfide grease

1.4 Use: Lubricant

1.5 Company Details

Manufacturer/Supplier: Dow Corning India Private Limited

Address: Plot No 100 # A, MIDC, Ranjangaon, Shirur Taluk, Pune District # 412 220

Telephone Number: +91 (2138) - 662800 Fax Number: +91 (2138) - 662811 Emergency Telephone +91 (2138) - 662856

Number:

Contact Person: Environment, Health and Safety Leader

2. COMPOSITION / INFORMATION ON INGREDIENTS

2.1 Chemical characterization:

2.2 Hazardous Ingredients:

<u>Chemical Name</u> <u>CAS No.</u> <u>% (w/w)</u> <u>Symbols & Health Risk Phrases</u>

Zinc dialkyl dithiophosphate 84605-29-8 <1 Xi Irritant.

N Dangerous for the environment. R36/38 Irritating to eyes and skin. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

*Classified as hazardous according to the Hazardous Chemical List as defined in Schedule 1 of Manufacture, Storage and Import of Hazardous Chemical Rule, 1989 and European Commission Directive 1999/45/EC (Article 3 [3]).

3. HAZARDS IDENTIFICATION

3.1 Overall Hazard Not hazardous.

Classification:

3.2 Hazard Information: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

3.3 Precautionary Avoid contact with skin and eyes. In case of fire and/or explosion do not breathe

Information: fumes. Avoid release to the environment. Refer to special instructions/Safety data

sheets.

3.4 Signs and Symptoms of

Overexposure:

No significant adverse effects from a single exposure expected from normal use.

4. FIRST AID MEASURES

4.1 Eye: Immediately flush with water for 15 minutes.

4.2 Skin: No first aid should be needed.4.3 Inhalation: No first aid should be needed.



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4.4 Ingestion: Get medical attention.

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

Treat symptomatically. For further information, the medical practitioner should 4.6 Note to physicians:

contact Dow Corning India Private Limited.

5. FIRE-FIGHTING MEASURES

5.1 **Hazardous Properties:**

Extinguishing Media: 5.2 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.

5.3 **Special Fire Fighting**

Procedures and

Equipment:

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.

Hazardous Combustion 5.4

Products:

Metal oxides. Sulfur oxides. Carbon oxides and traces of incompletely burned

carbon compounds. Formaldehyde.

5.5 Unsuitable

Extinguishing Media:

None established.

6. ACCIDENTAL RELEASE MEASURES

6.1 **Personal Precautions:** Avoid skin and eye contact. Do not take internally.

6.2 Environmental

Precautions:

Do not allow large quantities to enter drains or surface waters.

6.3 **Methods for Cleaning**

up:

Observe all personal protective equipment recommendations described in this MSDS. If diked material can be pumped, store recovered material in appropriate container. Wipe up or scrape up and contain for salvage or disposal. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. 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 laws and regulations are applicable.

7. HANDLING AND STORAGE

7.1 Use with adequate ventilation. Avoid skin and eye contact. Do not take internally. **Handling Precautions:**

Exercise good industrial hygiene practice. Wash after handling, especially before

eating, drinking or smoking.

7.2 **Storage Conditions:**

Unsuitable Packaging

Materials:

7.3

Use reasonable care and store away from oxidizing materials.

None established.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Industrial Hygiene Standards**

> **Ingredients** CAS No. **Exposure Limits**



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Zinc dialkyl dithiophosphate 84605-29-8 None established.

8.2 **Engineering Controls**

> **Local Ventilation:** None should be needed.

General Ventilation: Recommended.

8.3 **Personal Protective Equipment for Routine Handling**

> **Respiratory protection:** No respiratory protection should be needed.

Suitable Respirator: None should be needed.

Eye: Use proper protection - safety glasses as a minimum.

Hand: No special protection needed.

Skin: Washing at mealtime and end of shift is adequate.

Personal Hygiene: Exercise good industrial hygiene practice. Wash after handling, especially before

eating, drinking or smoking.

8.4 **Personal Protective Equipment for Spills**

> Respiratory protection: No respiratory protection should be needed.

Eye protection: Use proper protection - safety glasses as a minimum. **Skin protection:** Washing at mealtime and end of shift is adequate.

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

require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 **Physical Form:** Paste 9.2 Color: Charcoal Odor: 9.3 Odorless 9.4 pH: Not determined. 9.5 Solubility in Water: Not determined. **Boiling Point:** 9.6 Not determined. **Melting Point:** 9.7 Not determined. Flash Point: 9.8

Autoignition Not determined. 9.9

Temperature:

9.10 **Explosive properties:** No 9.11 Oxidizing properties: No

Vapor Pressure @ 25°C: Not determined. 9.12

9.13 Specific Gravity: 1.86

9.14 Octanol/water partition Not determined.

coefficient:

9.15 Vapour Density (air=1): Not determined. Viscosity: 9.16 Not determined. 9.17 **Upper Flammability** Not determined.

Limit:

9.18 Lower Flammability Not determined.

Limit:

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

10. STABILITY AND REACTIVITY

10.1 Stability: Stable.



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10.2 Reactivity

Conditions to Avoid: None.

Materials to Avoid: Can react with strong oxidising agents.

Hazardous Metal oxides. Sulfur oxides. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

Decomposition Products:

Hazardous Hazardous polymerization will not occur.

Polymerization:

11. TOXICOLOGICAL INFORMATION

11.1 Routes of Entry

[] Inhalation [X] Skin Contact [X] Ingestion

11.2 Possible Health Effects

Acute

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

Eye: Direct contact may cause mild irritation.

Inhalation: Irritates respiratory passages very slightly.
Ingestion: Low ingestion hazard in normal use.

Chronic

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.

Ingestion: Repeated ingestion or swallowing large amounts may injure internally.

11.3 Sensitizing Effects: None known.
11.4 Mutagenic Effects: None known.
11.5 Reproductive Effects: None known.
11.6 Carcinogenic Effects: None known.

11.7 Other Health Hazard Inhalation of fumes may result in metal fume fever, a flu-like illness with symptoms

Information: of metallic taste, fever and chills, aches, chest tightness, and cough.

The above listed potential effects of overexposure are based on actual data, the results of studies performed upon similar compositions, component data, and/or expert review of the products.

12. ECOLOGICAL INFORMATION

12.1 Environmental Fate and Distribution

Solid material, insoluble in water.

12.2 Ecotoxicity: Harmful to aquatic organisms and may cause long-term adverse effects in the

aquatic environment. However, due to the physical form and water-insolubility of

the product the bioavailability is negligible.

Bioaccumulation: No bioaccumulation potential. This product is a solid which is not soluble in water

and if ingested will not be absorbed.



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12.3 Fate and Effects in

No adverse effects on bacteria are predicted.

Plants:

13. DISPOSAL INFORMATION

Waste Water Treatment

13.1 Product Disposal: Dispose of in accordance with local regulations.
 13.2 Packaging Disposal: Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1 Road and Rail Transport

Not applicable.

14.2 Sea transport (IMDG)

Not subject to IMDG code.

14.3 Air Transport (IATA)

Not subject to IATA regulations.

15. REGULATORY INFORMATION

15.1 NFPA Hazard Signals

Health 1 Flammability 1 Instability 0 Special

15.2 Chemical Inventories

PICCS : All ingredients listed or exempt.
HSNO : All ingredients listed or exempt.
EINECS : All ingredients listed or exempt.

TSCA : All chemical substances in this material are included on or exempted from listing

on the TSCA Inventory of Chemical Substances.

AICS : All ingredients listed or exempt. IECSC : All ingredients listed or exempt.

ENCS/ISHL : All components are listed on ENCS/ISHL or its exempt rule.

KECL : All ingredients listed, exempt or notified.

DSL : Not determined.

16. OTHER INFORMATION

Contact Point: Environment, Health and Safety Leader Prepared by: Dow Corning India Private Limited

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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