

## MOLYKOTE(R) M-77 PASTE

Version 1.3      Revision Date: 10/07/2015      SDS Number: 672416-00004      Date of last issue: 06/04/2015  
Date of first issue: 10/27/2014

## SECTION 1. IDENTIFICATION

Product name : MOLYKOTE(R) M-77 PASTE

Product code : 000000000001005103

**Manufacturer or supplier's details**

Company name of supplier : Dow Corning Corporation

Address : South Saginaw Road  
Midland Michigan 48686

Telephone : (989) 496-6000

Emergency telephone : 24 Hour Emergency Telephone : (989) 496-5900  
CHEMTREC : (800) 424-9300

**Recommended use of the chemical and restrictions on use**

Recommended use : Lubricants and lubricant additives

## SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Molybdenum disulfide grease

**Hazardous ingredients**

| Chemical name               | CAS-No.   | Concentration (% w/w) |
|-----------------------------|-----------|-----------------------|
| Molybdenum sulfide          | 1317-33-5 | >= 50 - < 70          |
| 12-Hydroxy lithium stearate | 7620-77-1 | >= 1 - < 5            |

## SECTION 4. FIRST AID MEASURES

If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.  
Get medical attention if symptoms occur.

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|                                                             |                                                                                                                           |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| In case of eye contact                                      | : Flush eyes with water as a precaution.<br>Get medical attention if irritation develops and persists.                    |
| If swallowed                                                | : If swallowed, DO NOT induce vomiting.<br>Get medical attention if symptoms occur.<br>Rinse mouth thoroughly with water. |
| Most important symptoms and effects, both acute and delayed | : None known.                                                                                                             |
| Protection of first-aiders                                  | : No special precautions are necessary for first aid responders.                                                          |
| Notes to physician                                          | : Treat symptomatically and supportively.                                                                                 |

**SECTION 5. FIRE-FIGHTING MEASURES**

|                                                |                                                                                                                                                                                                                                                   |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                   | : Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical                                                                                                                                                      |
| Unsuitable extinguishing media                 | : None known.                                                                                                                                                                                                                                     |
| Specific hazards during fire fighting          | : Exposure to combustion products may be a hazard to health.                                                                                                                                                                                      |
| Hazardous combustion products                  | : Metal oxides<br>Sulfur oxides<br>Carbon oxides<br>Silicon oxides<br>Formaldehyde                                                                                                                                                                |
| Specific extinguishing methods                 | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |
| Special protective equipment for fire-fighters | : Wear self-contained breathing apparatus for firefighting if necessary.<br>Use personal protective equipment.                                                                                                                                    |

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

|                                                                     |                                                                                  |
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| Personal precautions, protective equipment and emergency procedures | : Follow safe handling advice and personal protective equipment recommendations. |
| Environmental precautions                                           | : Discharge into the environment must be avoided.                                |

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Prevent further leakage or spillage if safe to do so.  
 Retain and dispose of contaminated wash water.  
 Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material.  
 For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.  
 Local or national 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 regulations are applicable.  
 Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

## SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.  
 Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep in properly labeled containers.  
 Store in accordance with the particular national regulations.

Materials to avoid : Do not store with the following product types:  
 Strong oxidizing agents

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

| Ingredients                 | CAS-No.   | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis    |
|-----------------------------|-----------|----------------------------------|------------------------------------------------|----------|
| Molybdenum sulfide          | 1317-33-5 | TWA (total dust)                 | 15 mg/m <sup>3</sup><br>(Molybdenum)           | OSHA Z-1 |
|                             |           | TWA (Inhalable fraction)         | 10 mg/m <sup>3</sup><br>(Molybdenum)           | ACGIH    |
|                             |           | TWA (Respirable fraction)        | 3 mg/m <sup>3</sup><br>(Molybdenum)            | ACGIH    |
| 12-Hydroxy lithium stearate | 7620-77-1 | TWA                              | 10 mg/m <sup>3</sup>                           | ACGIH    |

Engineering measures : Processing may form hazardous compounds (see section

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10).  
Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

**Personal protective equipment**

Respiratory protection : 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. 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.

## Hand protection

Remarks : Wash hands before breaks and at the end of workday.

Eye protection : Wear the following personal protective equipment:  
Safety glasses

Skin and body protection : Skin should be washed after contact.

Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place.  
When using do not eat, drink or smoke.  
Wash contaminated clothing before re-use.  
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**

|                                         |                     |
|-----------------------------------------|---------------------|
| Appearance                              | : paste             |
| Color                                   | : Charcoal          |
| Odor                                    | : slight            |
| Odor Threshold                          | : No data available |
| pH                                      | : Not applicable    |
| Melting point/freezing point            | : No data available |
| Initial boiling point and boiling range | : Not applicable    |
| Flash point                             | : Not applicable    |

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|                                        |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Evaporation rate                       | : Not applicable                                           |
| Flammability (solid, gas)              | : Not classified as a flammability hazard                  |
| Upper explosion limit                  | : No data available                                        |
| Lower explosion limit                  | : No data available                                        |
| Vapor pressure                         | : Not applicable                                           |
| Relative vapor density                 | : No data available                                        |
| Relative density                       | : 1.9                                                      |
| Solubility(ies)                        |                                                            |
| Water solubility                       | : No data available                                        |
| Partition coefficient: n-octanol/water | : No data available                                        |
| Autoignition temperature               | : No data available                                        |
| Decomposition temperature              | : No data available                                        |
| Viscosity                              |                                                            |
| Viscosity, dynamic                     | : Not applicable                                           |
| Explosive properties                   | : Not explosive                                            |
| Oxidizing properties                   | : The substance or mixture is not classified as oxidizing. |
| Molecular weight                       | : No data available                                        |

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**SECTION 10. STABILITY AND REACTIVITY**

|                                    |                                                                                                                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | : Not classified as a reactivity hazard.                                                                                                                                                    |
| Chemical stability                 | : Stable under normal conditions.                                                                                                                                                           |
| Possibility of hazardous reactions | : Use at elevated temperatures may form highly hazardous compounds.<br>Can react with strong oxidizing agents.<br>Hazardous decomposition products will be formed at elevated temperatures. |
| Conditions to avoid                | : None known.                                                                                                                                                                               |
| Incompatible materials             | : Oxidizing agents                                                                                                                                                                          |
| Hazardous decomposition products   |                                                                                                                                                                                             |
| Thermal decomposition              | : Benzene<br>Formaldehyde                                                                                                                                                                   |

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## SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

Skin contact

Ingestion

Eye contact

**Acute toxicity**

Not classified based on available information.

**Ingredients:****Molybdenum sulfide:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 2.82 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

**12-Hydroxy lithium stearate:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

**Skin corrosion/irritation**

Not classified based on available information.

**Ingredients:****Molybdenum sulfide:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

**12-Hydroxy lithium stearate:**

Species: Rabbit

Result: No skin irritation

Remarks: Based on data from similar materials

**Serious eye damage/eye irritation**

Not classified based on available information.

**Ingredients:****Molybdenum sulfide:**

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

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**12-Hydroxy lithium stearate:**

Species: Rabbit

Result: No eye irritation

Remarks: Based on data from similar materials

**Respiratory or skin sensitization**

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

**Ingredients:****Molybdenum sulfide:**

Test Type: Maximization Test

Routes of exposure: Skin contact

Species: Guinea pig

Result: negative

**12-Hydroxy lithium stearate:**

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: negative

**Germ cell mutagenicity**

Not classified based on available information.

**Ingredients:****Molybdenum sulfide:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

**Carcinogenicity**

Not classified based on available information.

**Ingredients:****Molybdenum sulfide:**

Species: Rat

Application Route: Ingestion

Exposure time: 232 days

Result: negative

**IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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**Reproductive toxicity**

Not classified based on available information.

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Ingredients:****12-Hydroxy lithium stearate:**

Routes of exposure: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

**Repeated dose toxicity****Ingredients:****12-Hydroxy lithium stearate:**

Species: Rat

NOAEL: &gt; 88 mg/kg

Application Route: Ingestion

Exposure time: 90 Days

**Aspiration toxicity**

Not classified based on available information.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Ingredients:****Molybdenum sulfide:**

- |                                                     |                                                                                                                                                                               |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : LC50 (Pimephales promelas (fathead minnow)): 644.2 mg/l<br>Exposure time: 96 h<br>Remarks: Based on data from similar materials                                             |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 130.9 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>Remarks: Based on data from similar materials                    |
| Toxicity to algae                                   | : EC50 (Pseudokirchneriella subcapitata (green algae)): 289.2 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials |
| Toxicity to fish (Chronic toxicity)                 | : NOEC (Oncorhynchus mykiss (rainbow trout)): > 17 mg/l<br>Exposure time: 12 Months<br>Remarks: Based on data from similar materials                                          |

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia dubia (water flea)): 156.5 mg/l  
Exposure time: 21 d  
Remarks: Based on data from similar materials

Toxicity to bacteria : NOEC: > 950 mg/l  
Exposure time: 17 d  
Remarks: Based on data from similar materials

**12-Hydroxy lithium stearate:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : NOELR (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

**Persistence and degradability****Ingredients:****12-Hydroxy lithium stearate:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 78 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Resource Conservation and Recovery Act (RCRA) : This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

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## SECTION 14. TRANSPORT INFORMATION

## International Regulation

## UNRTDG

Not regulated as a dangerous good

## IATA-DGR

Not regulated as a dangerous good

## IMDG-Code

Not regulated as a dangerous good

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## Domestic regulation

## 49 CFR

Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

## EPCRA - Emergency Planning and Community Right-to-Know

## CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## US State Regulations

## Pennsylvania Right To Know

|                                                       |            |           |
|-------------------------------------------------------|------------|-----------|
| Molybdenum sulfide                                    | 1317-33-5  | 50 - 70 % |
| Dimethyl, phenylmethyl siloxane, trimethyl-terminated | 63148-52-7 | 20 - 30 % |
| 12-Hydroxy lithium stearate                           | 7620-77-1  | 1 - 5 %   |

## New Jersey Right To Know

|                                                       |            |           |
|-------------------------------------------------------|------------|-----------|
| Molybdenum sulfide                                    | 1317-33-5  | 50 - 70 % |
| Dimethyl, phenylmethyl siloxane, trimethyl-terminated | 63148-52-7 | 20 - 30 % |
| 12-Hydroxy lithium stearate                           | 7620-77-1  | 1 - 5 %   |

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Impurities in MoS2

Not Assigned

1 - 5 %

**California Prop. 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**The ingredients of this product are reported in the following inventories:**

KECI : All ingredients listed, exempt or notified.

REACH : All ingredients (pre-)registered or exempt.

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

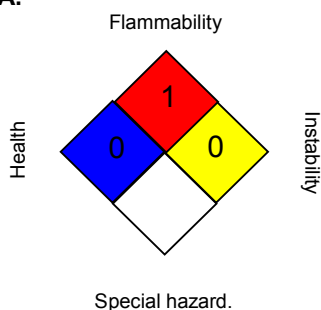
AICS : All ingredients listed or exempt.

IECSC : All ingredients listed or exempt.

PICCS : All ingredients listed or exempt.

DSL : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

ENCS/ISHL : All components are listed on ENCS/ISHL or exempted from inventory listing.

**SECTION 16. OTHER INFORMATION****Further information****NFPA:****HMIS III:**

|                 |   |
|-----------------|---|
| HEALTH          | 0 |
| FLAMMABILITY    | 1 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 = Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average

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OSHA Z-1 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 10/07/2015

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, in-

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cluding an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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## [会社情報]

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