

Page: 1 of 7

Dow Corning Toray Co., Ltd. Material Safety Data Sheet

Dow Corning Toray Co., Ltd.

Revision Date: 2011/06/15 MSDS No.: 01843524

MOLYKOTE(R) EM-50L GREASE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : MOLYKOTE(R) EM-50L GREASE
Company Name : Dow Corning Toray Co., Ltd.

Address : 100-0004, 1-5-1 Otemachi, Chiyoda-ku, Tokyo, Japan Phone Number : 03-3287-8300 (Customer Service)

Product Code : 01843524 **Emergency Telephone** : 0436-21-3101

Number

2. HAZARDS IDENTIFICATION

GHS Classification : Not applicable for GHS classification.

GHS Label Elements

Pictogram or Symbol : None. **Signal Word** : None.

Hazard Risk Statement : Not hazardous.

Precautionary Statement

Prevention : Avoid contact with skin and eyes.

Use only outdoors or in a well-ventilated area.

Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of soap and water.

Storage : Not applicable.

Disposal : Not applicable.

Other Hazard : None known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization : Mixture

Generic Name : Inorganic and organic compounds in synthetic oil

Ingredients and Contents

<u>CAS</u> <u>ENCS</u> <u>Chemical</u> <u>Wt % Component Name</u> <u>GHS Classification</u>

Number Number formula

Comments : No hazardous component exists in this material. This product doesn't contain the chemical(s) listed

by Japanese regulations and/or classified and containing not less than cut-off value by GHS.

4. FIRST AID MEASURES

In Case of Inhalation: No first aid should be needed.In Case of Skin Contact: Wash off with soap and water.In Case of Eye Contact: Immediately flush with water.In Case of Ingestion: Get medical attention.Comments: Treat symptomatically.

Possible Acute and Chronic Health Effect:

Acute

Eyes : Direct contact may cause temporary redness and discomfort.

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

Inhalation : No significant effects expected from a single short-term exposure.

Ingestion : Low ingestion hazard in normal use.

Chronic

Skin : Repeated or prolonged contact may cause defatting and drying of skin which may result



Page: 2 of 7

Dow Corning Toray Co., Ltd. Material Safety Data Sheet

Revision Date: 2011/06/15 01843524 MSDS No.:

MOLYKOTE(R) EM-50L GREASE

in skin irritation and dermatitis. No known applicable information.

: No known applicable information.

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

Other Health Hazard

Information

Important Symptoms and

Hazard Effects

Personal Protection for First

Aid or Rescue Personnel Note to physicians

: No significant adverse effects from normal use.

: No respiratory protection should be needed. Use proper protection - safety glasses as a

minimum. Washing at mealtime and end of shift is adequate. Treat symptomatically. For further information, the medical practitioner should contact

Dow Corning Toray Co.,Ltd.

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.

5. FIRE-FIGHTING MEASURES

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.

Unsuitable Extinguishing

Media

Specific Hazards during Fire

Specific Fire Fighting

: None.

None established.

Determine the need to evacuate or isolate the area according to your local emergency

plan. Use water spray to keep fire exposed containers cool.

Protection for Fire-fighter Self-contained breathing apparatus and protective clothing should be worn in fighting

large fires involving chemicals.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, **Protective Equipment and Emergency Procedures**

Environmental Precautions Recovery and Neutralization/ Methods and Materials for

Containment and Cleaning up

: Avoid skin and eye contact. Do not take internally. Please refer to section 8 Protective equipment.

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

Handling

Technical Measures Local and General

Use with adequate ventilation. Please refer to section 8 Ventilation.

Ventilation **Precautions**

Avoid skin and eye contact. Do not take internally.

Safe Handling Advice Exercise good industrial hygiene practice. Wash after handling, especially before eating,

drinking or smoking.

Avoidance of Contact

Please refer to section 10 Conditions to Avoid and Materials to Avoid.

Storage

Technical Measures and

Storage Conditions

Packaging Material

: Use reasonable care and store away from oxidizing materials.

: None established.



Page: 3 of 7

Dow Corning Toray Co., Ltd. Material Safety Data Sheet

Revision Date: 2011/06/15 MSDS No.: 01843524

MOLYKOTE(R) EM-50L GREASE

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Concentration Control Notification #79 from Ministry of Labor

None known.

Industrial Hygiene Standards

None known.

Engineering Measures

Local Ventilation : None should be needed.

General Ventilation: Recommended.

Personal Protective Equipment

Personal Protective Equipment for Routine Handling

Respiratory : No respiratory protection should be needed.

protection

Suitable Respirator : None should be needed.

Hand protection: Chemical protective gloves should be worn where repeated or prolonged contact can

occur.

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

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

drinking or smoking.

Personal Protective Equipment for Spills

Respiratory : No respiratory protection should be needed.

protection

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

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

Precautionary Measures: Avoid skin and eye contact. Do not take internally. Use reasonable care.

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

Physical State

Form : Grease
Color : White

Odour : Odorless
pH : Not determined.

Melting point/Freezing Point : Not determined.

Boiling point, Initial Boiling : Not determined.

Point, and Boiling Range

Flash Point : > 200 °C(Cleveland Open Cup)

Characteristics of Explosives : Not determined. Vapor Pressure @ 25°C Not determined. Vapor Density(air=1) Not determined. **Specific Gravity** 0.84 g/cm3 **Solubility** Not determined. Octanol/water partition Not determined. **Autoignition Temperature** Not determined. **Decomposition Temperature** Not determined. **Odour Threshold** Not determined. **Evaporation Rate** Not determined. Flammability (solid, gas) Not applicable. Viscosity Not determined.



Page: 4 of 7

Dow Corning Toray Co., Ltd. Material Safety Data Sheet

Revision Date: 2011/06/15 MSDS No.: 01843524

MOLYKOTE(R) EM-50L GREASE

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

10. STABILITY AND REACTIVITY

Stability : Stable.

Possibility of Hazardous : Hazardous polymerization will not occur.

Reactions

Conditions to Avoid : None.

Materials to Avoid : Can react with strong oxidising agents.

Hazardous Decomposition: Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

Products Metal oxides

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Please refer to Section 3 and Section 4 Health Effect.

Skin Corrosion/ Irritation : Please refer to Section 3 and Section 4 Health Effect.
Serious Eye Damage/ : Please refer to Section 3 and Section 4 Health Effect.

Irritation

Respiratory Organs : Please refer to Section 3 and Section 4 Health Effect.

Sensitization or Skin

Sensitization

Germ Cell Mutagenicity : Please refer to Section 3, Section 4 Health Effect and Section 15 ISHL Mutagen

Substance.

Carcinogenicity : Please refer to Section 3, Section 4 Health Effect and Section 15 ISHL Carcinogen

Substance.

Reproductive Toxicity : Please refer to Section 3 and Section 4 Health Effect. **Specific Target Organ.** : Please refer to Section 3 and Section 4 Health Effect.

Systemic Toxicity (Single

Exposure)

Specific Target Organ. : Please refer to Section 3 and Section 4 Health Effect.

Systemic Toxicity (Repeated

Exposure)

Aspiration Hazard : Please refer to Section 3 and Section 4 Health Effect.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects

Acute : No adverse effects on aquatic organisms are predicted.

Chronic : No adverse effects on aquatic organisms are predicted.

: No adverse effects on bacteria are predicted.

Fate and Effects in Waste Water Treatment

Plants

Plants
Persistence and Degradability

Water : Solid material, insoluble in water.

Bioaccumulative Potential

Bioaccumulation : No bioaccumulation potential.

Mobility in Soil : This product is a solid and does not contain significant concentrations of water soluble

constituents that may be leached from the product. It is therefore not likely to present a

danger to terrestrial organisms.

Additional Environmental : No specific information is available.



Page: 5 of 7

Dow Corning Toray Co., Ltd. Material Safety Data Sheet

Revision Date: 2011/06/15 MSDS No.: 01843524

MOLYKOTE(R) EM-50L GREASE

Information

13. DISPOSAL CONSIDERATIONS

Residual Waste : This product falls under Industrial Waste based on Wastes Disposal and Public

Cleansing Law. Dispose of in accordance with local regulations.

Dispose of in accordance with local regulations. **Contaminated Containers or**

Packaging

Note : None.

14. TRANSPORT INFORMATION

Local Regulations : Refer to Section 15.

International Regulations Sea Transport (IMDG) Not subject to IMDG code.

Air Transport (IATA)

Not subject to IATA regulations.

15. REGULATORY INFORMATION

Law Concerning Examination This product is not applied into the code about Specified Chemical Substances,

Monitoring Chemical Substances and Priority Assessment Chemical Substances. and Regulation of

Manufacture, etc. of Chemical

Substances

Industrial Safety and Health Law

Notification Substance Not applicable. **Indication Substance** Not applicable.

Ordinance on Prevention

of Organic Solvent

Poisoning

Ordinance on Prevention

: Not applicable.

: Not applicable.

of Hazards due to **Specified Chemical**

Substances

Ordinance on Prevention

Not applicable

of Lead Poisoning

Ordinance on Prevention

: Not applicable

of Tetraalkyl Lead

Poisoning

Not applicable. **Hazardous Material** Not applicable **Banned Substance Mutagen Substance** Not applicable. Not applicable. **Carcinogen Substance**

High Pressure Gas Safe Law

: Not applicable.

Fire Service Law

DESIGNATED FLAMMABLE SUBSTANCES, OTHER PLASTICS (3,000kg)

Poisonous and Deleterious Not applicable.

Substance Control Law

Pollutant Release and Transfer : Not applicable.

Register

Marine Pollutant Prevention

: Not Classified as a Marine Pollutant

Law



Page: 6 of 7

Dow Corning Toray Co., Ltd. Material Safety Data Sheet

Revision Date: 2011/06/15 MSDS No.: 01843524

MOLYKOTE(R) EM-50L GREASE

Chemical Inventories

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

TSCA Inventory of Chemical Substances.

EINECS : All ingredients listed or exempt.

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.

PICCS : All ingredients listed or exempt.

DSL : All chemical substances in this material are included on or exempted from the DSL.

HSNO : All ingredients listed or exempt.

16. OTHER INFORMATION

Bibliography: Statue book of chemicals, Internal Technical Data and others

JAMP MSDSplus

This is based on MSDSplus(Ver.3.1) by JAMP(Joint Article Management Promotion-

consortium).

Substance Information This product contains NO substances in the relevant standard and to be notified.

Dalamant Ctan Jand

The objects of investigation are the followings. Substances are applied to the regulation for JP01, JP02, or JP03. They are contained intentionally or their concentration is more than or equal to the cutoff value for EU01 or EU02. Their concentration is more than or equal to 0.1% for EU03, EU04, or EU05. OT01, IA01, IA02 are not a subject of

investigation.

Cala

Relevant Standard

<u>Code</u>	Relevant Standard	<u>Issued or</u>
		revised
JP01	Japanese Chemical Substances Control Law (Class I	2009-10-30
	Specified Chemical Substances)	
JP02	Industrial Safety and Health Act (Substances	2007-09-07
	Prohibited of Manufacturing etc.)	
JP03	Poisonous and Deleterious Substance Control Law	2007-08-15
	(Specified Poisonous Substances)	
EU01	RoHS Directive	2002/95/EC
EU02	ELV Directive	2000/53/EC
EU03	CLP Annex VI CMR-Cat1,2	EC No
		1272/2008,
		ATP1
		included
EU04	REACH Annex XVII [Except EU03]	EC No
		552/2009
EU05	REACH SVHC on the Candidate List	2010-01-13
Substances do not directly mean legally regulated. It depends on use and other		

Substances do not directly mean legally regulated. It depends on use and other conditions. For more information please refer to "How to make JAMP MSDSplus".

These data are offered in good faith as typical values and not as product specifications. They are believed accurate as of the date of this Material Safety Data Sheet based on a review of current composition and information supplied by vendors. 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. This Product has been developed and manufactured for general industrial use. For medical use, or other uses where safety considerations may be required, you must in advance test and review the safety of your intended application. Moreover, this Product is not for human implant nor human injection, nor use for applications which may present risk of accumulating inside human bodies.



Page: 7 of 7

Dow Corning Toray Co., Ltd. Material Safety Data Sheet

Revision Date: 2011/06/15 MSDS No.: 01843524

MOLYKOTE(R) EM-50L GREASE

***** This is the last page. *****