

Revision Date: 2005/08/04 MSDS No.: 01283561

### MOLYKOTE(R) LONGTERM W2

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

: MOLYKOTE(R) LONGTERM W2 **Product Name Company Name** Dow Corning Toray Co., Ltd.

Address 100-0005, AIG Bldg., 1-1-3 Marunouchi, Chiyoda-ku, Tokyo, Japan

**Phone Number** 03-3287-8300 (Customer Service)

Fax Number 03-3287-8311 : 01283561 **Product Code** : 0436-21-3101 **Emergency Telephone** 

Number

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization Mixture

**Generic Name** Inorganic and organic compounds in mineral oil

**Ingredients and Contents** 

CAS Number	<b>ENCS</b>	Chemical formula	Wt %	Component Name
64741-96-4	<u>Number</u> (9)-1692	-	40 - 50	Solvent refined heavy naphthenic distillate (petroleum)
64741-88-4	(9)-1692	-	10 - 20	Solvent-refined heavy paraffinic petroleum distillate
64742-54-7	(9)-1692	-	10 - 20	Hydrotreated heavy paraffinic petroleum distillate
64742-65-0	(9)-1692	-	10 - 20	Solvent dewaxed heavy paraffinic petroleum distillate
1305-62-0	(1)-181	Ca(OH)2	1 - 10	Calcium hydroxide
13463-67-7	(1)-558	TiO2	1 - 10	Titanium dioxide
Comments		: This product contains the above	ve chemi	cal(s) listed by regulations and/or European

Commission Directive 1999/45/EC (Article 3[3]).

### 3. HAZARDS IDENTIFICATION

**Overall Hazard Classification** 

**Hazardous Properties** : Not hazardous. **Environmental Effects** : Not applicable. **Physical and Chemical** : Not applicable. Risks

: No significant adverse effects from a single exposure expected from normal use. Signs and Symptoms

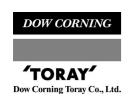
**Hazard Classification** Not applicable.

(Japanese system)

### 4. FIRST AID MEASURES

In Case of Inhalation : No first aid should be needed. In Case of Skin Contact : No first aid should be needed.





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In Case of Eye Contact : Immediately flush with water for 15 minutes.

**In Case of Ingestion** : Get medical attention.

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

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

Dow Corning Toray Co.,Ltd.

### 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** : None established.

Media

**Specific Hazards during Fire** : None.

**Specific Fire Fighting** : 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** : Avoid skin and eye contact. Do not take internally.

**Environmental Precautions** : Do not allow large quantities to enter drains or surface waters.

Methods for Cleaning or : Observe all personal protective

Taking 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

Handling

**Technical Measures** : Use with adequate ventilation. **Precautions** : Avoid skin and eye contact.

Advice on safe handling : Exercise good industrial hygiene practice. Wash after handling, especially before eating,

drinking or smoking.

Storage

**Advice on storage** : Use reasonable care and store away from oxidizing materials.

**Suitable packaging** : None established.

materials

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls** 

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

**General Ventilation**: Recommended.

Concentration Control Notification #26 from Ministry of Labor

None known.

**Industrial Hygiene Standards** 

<u>Component Name</u> <u>Exposure Limits</u>





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### MOLYKOTE(R) LONGTERM W2

Solvent refined heavy naphthenic

distillate (petroleum)

Solvent-refined heavy paraffinic

petroleum distillate

Hydrotreated heavy paraffinic

petroleum distillate

Solvent dewaxed heavy paraffinic

petroleum distillate

Calcium hydroxide Titanium dioxide

ACGIH STEL 10 mg/m3. OSHA PEL and ACGIH TLV: TWA 5 mg/m3.

Japan Association on Industrial Health Guideline (2001): TWA 1 mg/m3 Respirable dust.

TWA 4 mg/m3 Total dust.

ACGIH STEL 10 mg/m3.

ACGIH STEL 10 mg/m3.

ACGIH STEL 10 mg/m3.

Observe titanium dioxide limits. OSHA PEL (final rule): TWA 15 mg/m3 and ACGIH

Observe oil mist limits. OSHA PEL (final rule) and ACGIH TLV: TWA 5 mg/m3;

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Observe oil mist limits. OSHA PEL (final rule) and ACGIH TLV: TWA 5 mg/m3;

TLV: TWA 10 mg/m3.

#### **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 No special protection needed.

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

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

drinking or smoking.

### **Personal Protective Equipment for Spills**

: No respiratory protection should be needed. Respiratory

protection

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

pH

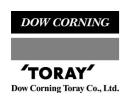
**Form** : Grease Color White Odour Slight odor : Not determined. **Phase Transaction Temperature or Temperature Range** 

**Boiling point/range** : Not determined. : Not determined. Melting point/range **Decomposition Temperature** : Not determined.

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

**Autoignition Temperature** : Not determined. : Not determined. **Characteristics of Explosives** : Not determined. Vapor Pressure @ 25°C : Not determined. **Vapor Density** : 0.96 g/cm3 **Density Solubility** : Not determined.





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### MOLYKOTE(R) LONGTERM W2

**Partition coefficient** : Not determined.

(n-octanol/water)

Viscosity : Not determined.

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

### 10. STABILITY AND REACTIVITY

**Stability** : Stable.

**Reactivity** : Hazardous polymerization will not occur.

**Conditions to Avoid** : None

Materials to Avoid : Can react with strong oxidising agents.

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

**Products** Phosphorous oxides. Formaldehyde.

### 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

None known.

**Local Effects** 

Eye : Direct contact may cause mild irritation.

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

**Acute Effects** 

Oral : Low ingestion hazard in normal use.

Inhalation : Irritates respiratory passages very slightly.

Sensitizers : None known.

**Chronic Effects** 

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

skin irritation and dermatitis.

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

**Inhalation** : No known applicable information.

Carcinogens: None known.Mutagens: None known.Teratogens: None known.Reproductive Toxins: None known.

**Other information** : No known applicable information.

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

**Mobility** : Solid material, insoluble in water. No adverse effects are predicted.

**Bioaccumulation** : No bioaccumulation potential.

**Ecotoxicity** 

Others : No adverse effects on aquatic organisms are predicted.

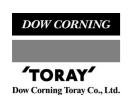
#### 13. DISPOSAL CONSIDERATIONS

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

Law. Dispose of in accordance with this law and local regulations.

Note : None.





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### 14. TRANSPORT INFORMATION

: Refered to Section 15. **Local Regulations** 

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

Not subject to IATA regulations.

#### 15. REGULATORY INFORMATION

**Law Concerning Examination** 

and Regulation of

Manufacture, etc.of Chemical

**Substances** 

**Industrial Safety and Health Law** 

<b>Notification Substance</b>	: <u>Specific</u>	<b>Notification Component(s)</b>	Wt %
	<u>Number</u> 169	Solvent refined heavy naphthenic distillate (petroleum)	40 - 50
	169	Solvent-refined heavy paraffinic petroleum distillate	10 - 20
	169	Hydrotreated heavy paraffinic petroleum distillate	10 - 20
	169	Solvent dewaxed heavy paraffinic petroleum distillate	10 - 20
	316	Calcium hydroxide	1 - 10
	192	Titanium dioxide	1 - 10

**Indication Substance Ordinance on Prevention** of Organic Solvent

: Not applicable. Not applicable.

: Not applicable.

**Poisoning** 

**Ordinance on Prevention** 

: Not applicable.

of Hazards due to **Specified Chemical** 

**Substances** 

of Lead Poisoning

**Ordinance on Prevention** 

: Not applicable

**Ordinance on Prevention** 

: Not applicable

of Teraalkyl Lead

**Poisoning** 

Not applicable.

**Hazardous Material Banned Substance** 

Not applicable

**High Pressure Gas Safe Law** 

Not applicable.

Fire Service Law

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

**Poisonous and Deleterious** 

**Substance Control Law** 

: Not applicable.

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**Pollutant Release and Transfer** : Not applicable.

Register

Marine Pollutant Prevention : Not Classified as a Marine Pollutant

Law

**Chemical Inventories** 

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

EINECS : All ingredients listed or exempt.

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

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

KECL : All ingredients listed, exempt or notified.

IECSC : All ingredients listed or exempt.

TSCA : Not determined.

### 16. OTHER INFORMATION

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

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. 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.

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