

Vers 3.0	sion	Revision Date: 10/16/2017		DS Number: 8371-00011	Date of last issue: 03/18/2017 Date of first issue: 12/17/2014					
SEC	SECTION 1. IDENTIFICATION									
	Produc	t name	:	MOLYKOTE™ 4	Electrical Insulating Compound					
	Produc	t code	:	06004025 (Crowr	n Part Number: 063002-019)					
	Manufa	acturer or supplier's o	deta	ails						
	Company Identification		:	DOW SILICONES 2200 WEST SAL MIDLAND MI 486 UNITED STATES	ZBURG ROAD 586-0994					
	Teleph	one	:	800-258-2436						
	24-Hou	r Emergency Contact	:	1 800 424 9300						
	Local E	mergency Number	:	800-424-9300						
		address	:	SDSQuestion@d						
Recommended use of the cl Recommended use		nen :	Lubricants and lul							

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### GHS classification in accordance with 29 CFR 1910.1200

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 : Inorganic compound

#### Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Silicon dioxide	7631-86-9	>= 9 - <= 10

### **SECTION 4. FIRST AID MEASURES**

If inhaled

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





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In cas	se of skin contact	:		and soap as a precaution. ntion if symptoms occur.
In cas	se of eye contact	:	•	vater as a precaution. ntion if irritation develops and persists.
lf swa	allowed	:	Get medical atter	NOT induce vomiting. ntion if symptoms occur. oughly with water.
	important symptoms ffects, both acute and ed	:	None known.	
Prote	ction of first-aiders	:	No special preca	utions are necessary for first aid responders.
Notes	s to physician	:	Treat symptomat	ically and supportively.

#### SECTION 5. FIRE-FIGHTING MEASURES

Suitable ext	inguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable o media	extinguishing	:	None known.
Specific haz	zards during fire	:	Exposure to combustion products may be a hazard to health.
Hazardous ucts	combustion prod-	:	Carbon oxides Silicon oxides Formaldehyde Boron oxides
Specific ext ods	inguishing meth-	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special prot for fire-fight	tective equipment ers	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-	:	Follow safe handling advice and personal protective
tive equipment and emer-		equipment recommendations.
gency procedures		



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Enviro	onmental precautions	Prevent further Retain and disp Local authoritie	Discharge into the environment must be avoided. 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		For large spills, containment to can be pumped container. Clean up remai absorbent. Local or nationa disposal of this employed in the determine which Sections 13 and	ert absorbent material. provide diking or other appropriate keep material from spreading. If diked material , store recovered material in appropriate ning materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to h regulations are applicable. d 15 of this SDS provide information regarding 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, based on the results of the workplace exposure assessment 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 (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3	OSHA Z-3



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	<b> </b>					/ %SiO2 (Silica)	
					TWA	6 mg/m³ (Silica)	NIOSH REL
_		substance(s) are in ust inhalation hazard		ably bound in	the product	and therefore do not	contribute
		Silicon dioxide	e				
	Engine	eering measures	:	10). Ensure adequ	ate ventilatior	dous compounds (see n, especially in confined re concentrations.	
	Perso	nal protective equip	ment				
	Respira	atory protection	:	No personal re required.	espiratory pro	tective equipment norm	nally
	Hand p	protection					
	Rer	narks	:	Wash hands b	efore breaks	and at the end of work	day.
	Eye pr	otection	:	Wear the follo Safety glasses		l protective equipment:	
	Skin ar	nd body protection	:	Skin should be	e washed afte	er contact.	
	Hygien	e measures	:	located close When using d Wash contam These precau	to the working o not eat, drin inated clothing tions are for re perature or ae		ling. Use at

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Grease
Color	:	white, translucent
Odor	:	slight
Odor Threshold	:	No data available
рН	:	Not applicable
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	Not applicable

### SAFETY DATA SHEET

## MOLYKOTE<sup>™</sup> 4 Electrical Insulating Compound



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Fla	ish point	:	> 300 °C Method: closed c	sup
Ev	aporation rate	:	Not applicable	
Fla	mmability (solid, gas)	:	Not classified as	a flammability hazard
S	elf-ignition	:		r mixture is not classified as pyrophoric. The cture is not classified as self heating.
	per explosion limit / Upper mmability limit	:	No data available	9
	wer explosion limit / Lower mmability limit	:	No data available	9
Va	por pressure	:	Not applicable	
Re	lative vapor density	:	No data available	9
Re	Relative density		> 1	
So	lubility(ies) Water solubility	:	No data available	9
	rtition coefficient: n- anol/water	:	No data available	9
Au	toignition temperature	:	No data available	9
De	composition temperature	:	No data available	9
Vis	cosity Viscosity, dynamic	:	Not applicable	
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	The substance o	r mixture is not classified as oxidizing.
Мс	lecular weight	:	No data available	9
Pa	rticle size	:	No data available	9

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents.



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			Hazardous deco temperatures.	mposition products will be formed at elevated
Co	nditions to avoid	:	None known.	
Inc	ompatible materials	:	Oxidizing agents	
	zardous decomposition ermal decomposition	prod :	<b>ucts</b> Formaldehyde	
SECTIC	N 11. TOXICOLOGICAL	INFC	RMATION	
Ski Ing Eye <b>Ac</b>	ormation on likely routes n contact estion e contact ute toxicity t classified based on availa			
Ing	redients:			
Sil	icon dioxide:			
Acı	ute oral toxicity	:	icity	00 mg/kg substance or mixture has no acute oral tox- ntion taken from reference works and the
Act	ute inhalation toxicity	:	tion toxicity	h
Act	ute dermal toxicity	:	toxicity	5,000 mg/kg substance or mixture has no acute dermal ation taken from reference works and the

#### Skin corrosion/irritation

Not classified based on available information.

### Ingredients:

#### Silicon dioxide:

Result: No skin irritation Remarks: Information taken from reference works and the literature.



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#### Serious eye damage/eye irritation

Not classified based on available information.

#### Ingredients:

#### Silicon dioxide:

Result: No eye irritation Remarks: Information taken from reference works and the literature.

#### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

#### Ingredients:

#### Silicon dioxide:

Assessment: Does not cause skin sensitization.

Test Type: Skin: test type not specified Species: Guinea pig Result: negative Remarks: Information taken from reference works and the literature.

#### Germ cell mutagenicity

Not classified based on available information.

#### Ingredients:

Silicon dioxide:		
Genotoxicity in vitro	:	Result: negative Remarks: Information taken from reference works and the literature.
Genotoxicity in vivo	:	Application Route: Ingestion Result: negative Remarks: Information taken from reference works and the literature.
Germ cell mutagenicity - Assessment	:	Animal testing did not show any mutagenic effects.

#### Carcinogenicity

Not classified based on availab	ble information. 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 component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.



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#### 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.

#### **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.

#### Aspiration toxicity

Not classified based on available information.

#### **SECTION 12. ECOLOGICAL INFORMATION**

	Ecotoxicity	
	No data available	
	Persistence and degradability	
	No data available	
	Bioaccumulative potential	
	No data available	
	Mobility in soil	
	No data available	
	Other adverse effects	
	No data available	
SE	CTION 13. DISPOSAL CONSIDERATIONS	
	Disposal methods	
	Resource Conservation and : This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.	ł

Waste from residues	: Dispose of in accordance with local regulations.
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:	Empty containers should be taken to an approved waste
	handling site for recycling or disposal.
	If not otherwise specified: Dispose of as unused product.
	:

### SECTION 14. TRANSPORT INFORMATION

#### **International Regulations**

#### UNRTDG

### SAFETY DATA SHEET



For

### MOLYKOTE<sup>™</sup> 4 Electrical Insulating Compound

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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 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
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#### **SARA 313**

This material does not contain any chemical components with 1 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

Dimethyl Siloxane, polymers with Methyl Silsesquioxanes	68037-74-1
Silicon dioxide	7631-86-9
Silicone Metalloid Complex	Trade secret

#### 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.

California Permissible Expo	sure Limits for Chemical Co	ntaminants
Silicon dioxide		7631-86-9
The ingredients of this product are reported in the following inventories:		
NZIoC	: All ingredients listed or ex	empt.
REACH	ingredients are currently p REACH. Please refer to s	Chemical EU legal entities, all pre/registered or exempt under ection 1 for recommended uses. For Dow Chemical legal entities with the

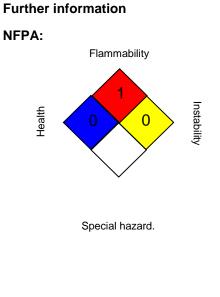
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## Dow

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			intention to expor representative/loc	t into EEA please contact your DC cal office.
TSC	CA	:		tances in this product are either listed on the or are in compliance with a TSCA Inventory
AIC	S	:	All ingredients list	ed or exempt.
IEC	SC	:	All ingredients list	ed or exempt.
EN	CS/ISHL	:	All components a inventory listing.	re listed on ENCS/ISHL or exempted from
KE	CI	:	All ingredients list	ed, exempt or notified.
PIC	CS	:	All ingredients list	ed or exempt.
DSI	-	:	on the Canadian this product into (	ains one or more substances which are not Domestic Substances List (DSL). Import of Canada has volume limitations. For volume sult Dow Chemical Regulatory Compliance.
TCS	SI	:	All ingredients list	ed or exempt.

#### **SECTION 16. OTHER INFORMATION**



#### HMIS® IV:

HEALTH	/	0
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

NIOSH REL		USA. NIOSH Recommended Exposure Limits
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour



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OSHA Z-3 / TWA

workday during a 40-hour workweek 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/

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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



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context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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