DOW CORNING

MOLYKOTE(R) 111 COMPOUND

Versi 4.0	ion	Revision Date: 09/14/2017		DS Number: 67193-00009	Date of last issue: 03/10/2017 Date of first issue: 03/24/2015			
SEC.	SECTION 1. IDENTIFICATION							
	Product name		:	: MOLYKOTE(R) 111 COMPOUND				
	Produc	t code	:	: 0000000001889834				
	Manufacturer or supplier's Company name of supplier			details : Dow Corning Corporation				
	Address		:	South Saginaw Road Midland Michigan 48686				
	PO box		:	65091				
	Telephone		:	(989) 496-6000				
	Emerge	ency telephone	:	24 Hour Emerger CHEMTREC : (80	ncy Telephone : (989) 496-5900 00) 424-9300			
Recommended use of the c			hen	nical and restriction	ons on use			

Recommended use of the chemical and restrictions on use

Recommended use	:	Lubricants and lubricant additives

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 : Silicone grease

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.
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 If swallowed		:	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.			
		:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.			
	mportant symptoms fects, both acute and d	:	None known.			
Protec	tion of first-aiders	:	No special precau	utions are necessary for first aid responders.		
Notes	to physician	:	Treat symptomati	cally and supportively.		

SECTION 5. FIRE-FIGHTING MEASURES

	Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
	Unsuitable extinguishing media	:	None known.
I	Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
	Hazardous combustion prod- ucts	:	Carbon oxides Silicon oxides Formaldehyde Boron oxides
•	Specific extinguishing meth- ods	:	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 protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions	:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so.

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		•	ose of contaminated wash water. should be advised if significant spillages ned.
	ds and materials for ment and cleaning up	For large spills, p containment to k can be pumped, container. Clean up remain absorbent. Local or national disposal of this r employed in the determine which Sections 13 and	rt absorbent material. provide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and naterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational 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 / %SiO2 (Silica)	OSHA Z-3
		TWA	6 mg/m ³ (Silica)	NIOSH REL

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These substance(s) are inext to a dust inhalation hazard. Silicon dioxide		1.	cably bound in th	e product and therefore do not contribute			
Engir	neering measures	:	Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.				
Personal protective equipment							
Respi	ratory protection	:	No personal resp required.	iratory protective equipment normally			
Hand protection							
Re	emarks	:	Wash hands befo	pre breaks and at the end of workday.			
Eye p	rotection	:	Wear the followir Safety glasses	g personal protective equipment:			
Skin a	and body protection	:	Skin should be w	ashed after contact.			
Hygie	ne measures	:	located close to t When using do n Wash contamina These precaution	lushing systems and safety showers are he working place. ot eat, drink or smoke. ted clothing before re-use. is are for room temperature handling. Use at ature or aerosol/spray applications may ecautions.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance		Grease
Color	:	white, translucent
Odor	:	none
Odor Threshold	:	No data available
рН	:	Not applicable
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	Not applicable
Flash point	:	> 101.1 °C Method: closed cup
Evaporation rate	:	Not applicable

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F	Flamma	ability (solid, gas)	:	Not classified as	a flammability hazard
	Self-ig	nition	:		r mixture is not classified as pyrophoric. The ture is not classified as self heating.
l f	Upper e flamma	explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9
١	Vapor p	pressure	:	Not applicable	
F	Relative	e vapor density	:	No data available	9
F	Relative	e density	:	1.1	
S	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n- /water	:	No data available	9
I	Autoign	ition temperature	:	No data available	9
[Decom	position temperature	:	No data available	9
١	Viscosi Visc	ty osity, dynamic	:	Not applicable	
E	Explosi	ve properties	:	Not explosive	
(Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
ſ	Molecu	lar weight	:	No data available	9
F	Particle	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. Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents

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	r dous decompositio nal decomposition	n products : Formaldehyde	
ECTION	11. TOXICOLOGICA	L INFORMATION	
Skin o Inges	nation on likely rout contact tion ontact	es of exposure	
	e toxicity assified based on ava	ailable information.	
Ingre	dients:		
Silico	n dioxide:		
Acute	oral toxicity	icity	,300 mg/kg ne substance or mixture has no acute oral tox mation taken from reference works and the
Acute	inhalation toxicity	tion toxicity	4 h
Acute	dermal toxicity	toxicity	> 5,000 mg/kg ne substance or mixture has no acute dermal mation taken from reference works and the
	corrosion/irritation assified based on ava	ailable information.	
	dients:		
	n dioxide:		

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

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.

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 Resp	iratory or skin sens	itization	
	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 availa IARC	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.
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.

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	T-single exposure							
	Not classified based on available information.							
	T-repeated exposure classified based on av							
-	ration toxicity classified based on av	ailable information						
	Ecotoxicity No data available							
	istence and degrada	bility						
	ata available							
	ccumulative potenti a ata available	ai						
Mob	ility in soil							
No d	ata available							
••	r adverse effects							
No d	ata 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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

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.

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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
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					
Dimethyl siloxane, trimethylsiloxy-terminated	63148-62-9				
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 E	Exposur	e Limits for Chemical Contaminants
Silicon dioxide		7631-86-9
The ingredients of this	product	are reported in the following inventories:
NZIoC	:	All ingredients listed or exempt.
REACH	:	For purchases from Dow Corning EU legal entities, all ingredients are currently pre/registered or exempt under REACH. Please refer to section 1 for recommended uses. For purchases from non-EU Dow Corning legal entities with the intention to export into EEA please contact your DC representative/local office.
TSCA	:	All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
PICCS	:	All ingredients listed or exempt.
KECI	:	All ingredients listed, exempt or notified.

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AICS		All ingredients listed or exempt.	
IECS	С	All ingredients listed or exempt.	
ENC	S/ISHL	All components are listed on ENCS inventory listing.	ISHL or exempted from
DSL		This product contains one or more s on the Canadian Domestic Substan this product into Canada has volum limits please consult Dow Corning F	ces List (DSL). Import of e limitations. For volume
TCSI		All ingredients listed or exempt.	

SECTION 16. OTHER INFORMATION



Further information

HMIS® IV:

HEALTH	1	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 OSHA Z-3		USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min- eral Dusts
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA Z-3 / 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% response; EMS - Extremely Hazardous Substance; ERG - Emergency Response Guide; GHS - Globally Harmonized Sys-

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tem; 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	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, 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 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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