MOLYKOTE[®] L-1668 FM Synthetic Blend Vacuum Pump Oil



Version 4.0	Revision Date: 10/16/2018		DS Number: 20691-00009	Date of last issue: 03/21/2017 Date of first issue: 12/22/2014		
SECTIC	N 1. IDENTIFICATION					
	Product name Product code		MOLYKOTE [®] L-1 04012322	MOLYKOTE [®] L-1668 FM Synthetic Blend Vacuum Pump Oil 04012322		
Ма	nufacturer or supplier's	deta	ails			
Co	Company Identification		DDP SPECIALTY ELECTRONIC MATERIALS US 9, LLC 974 Centre Road Wilmington DE 19805 UNITED STATES			
Tel	ephone	:	833-338-7668			
24-	Hour Emergency Contact	:	1-800-424-9300			
Lo	cal Emergency Number	:	800-424-9300			
E-r	E-mail address		SDSQuestion-NA@dupont.com			
Re	Recommended use of the chemical and restrictions on use					
Recommended use		:	Lubricants and lu	bricant 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	:	Inorganic and organic compounds
		in mineral oil

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
White mineral oil (petroleum)	8042-47-5	>= 63 - <= 77
Dec-1-ene, homopolymer, hydrogenated	68037-01-4	>= 23 - <= 35

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.
In case of eye contact	: Flush eyes with water as a precaution.
	Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting.
	Get medical attention if symptoms occur.

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Most important symptoms and effects, both acute and delayed		:	Rinse mouth thore None known.	oughly with water.		
P	rotection of first-aiders otes to physician	:	No special precautions are necessary for first aid responders. Treat symptomatically and supportively.			
SECTI	ON 5. FIRE-FIGHTING MEA	ASL	IRES			
S	uitable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical			
	nsuitable extinguishing edia	:	None known.			
	pecific hazards during fire	:	Exposure to combustion products may be a hazard to health.			
	azardous combustion prod- cts	:	Carbon oxides			
S	pecific extinguishing meth- ds	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do		
	pecial protective equipment r fire-fighters	:	necessary.	ed breathing apparatus for firefighting if rective 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. Prevent spreading over a wide area (e.g., by containment or oil barriers). 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

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			Sections 13 and	regulations are applicable. 15 of this SDS provide information regarding ational requirements.		
SECTION	N 7. HANDLING AND ST	FOR/	AGE			
Tech	nnical measures	:	v v	measures under EXPOSURE RSONAL PROTECTION section.		
Loca	al/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 Strong oxidizing	the following product types: agents		

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

		-		
Ingredients	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
White mineral oil (petroleum)	8042-47-5	TWA (Mist)	5 mg/m³	OSHA Z-1
		TWA (Inhal-	5 mg/m ³	ACGIH
		able fraction)	-	
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m ³	NIOSH REL

Ingredients with workplace control parameters

Hazardous components without workplace control parameters

:

Ingredients	CAS-No.
Dec-1-ene, homopolymer,	68037-01-4
hydrogenated	

Engineering measures

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

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Hand protection		adequate protec	tion.
Eye p Skin a	emarks rotection and body protection ne measures	 Wear the followin Safety glasses Skin should be v Ensure that eye located close to When using do r Wash contamina These precautio elevated temper require added pr For further inforr organic oils in co the guidance do materials in cons developed by the 	ore breaks and at the end of workday. Ing personal protective equipment: vashed after contact. flushing systems and safety showers are the working place. not eat, drink or smoke. ated clothing before re-use. Ins are for room temperature handling. Use at ature or aerosol/spray applications may recautions. nation regarding the use of silicones / onsumer aerosol applications, please refer to cument regarding the use of these type of sumer aerosol applications that has been e silicone industry (www.SEHSC.com) or Chemical customer service group.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Color Odor Odor Threshold	: : :	liquid colorless odorless No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	> 35 °C
range Flash point	:	220 °C Method: closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not applicable
Self-ignition	:	The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available

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Polat	ive vapor density		No data available	2
Relative vapor density Relative density		:	0.86	,
	ility(ies) ater solubility	:	No data available	
	ion coefficient: n-	:	No data available	-
	ol/water gnition temperature	:	No data available	9
Deco	mposition temperature	:	No data available	9
Visco Vi	sity scosity, kinematic	:	68 mm²/s (25 °C)
Explo	sive properties	:	Not explosive	
Oxidi	zing properties	:	The substance o	r mixture is not classified as oxidizing.
	cular weight cle size	:	No data available Not applicable	9

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Ingredients:

White mineral oil (petroleum):

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

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Acute	e dermal toxicity	Assessmen tion toxicity : LD50 (Rab	phere: dust/mist ht: The substance or mixture has no acute inhala-
Dec-	1-ene, homopolymer,	hydrogenated:	
Acute	e oral toxicity	: LD50 (Rat)	: > 5,000 mg/kg
Acute	e inhalation toxicity	Method: O	ime: 4 h phere: dust/mist ECD Test Guideline 403 nt: The substance or mixture has no acute inhala-
Acute	e dermal toxicity	Method: O	: > 2,000 mg/kg ECD Test Guideline 402 Based on data from similar materials
Ingre White Spec	lassified based on ava edients: e mineral oil (petroleu ies: Rabbit It: No skin irritation		
Dec-	1-ene, homopolymer,	hydrogenated:	
Spec Resu	ies: Rabbit It: No skin irritation		
	ous eye damage/eye i		
	lassified based on ava	lable information.	
	edients:		
Spec	e mineral oil (petroleu ies: Rabbit lt: No eye irritation	ım):	
Spec Resu	1-ene, homopolymer, ies: Rabbit lt: No eye irritation od: OECD Test Guideli		

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Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Ingredients:

White mineral oil (petroleum):

Test Type: Buehler Test Routes of exposure: Skin contact Species: Guinea pig Result: negative

Dec-1-ene, homopolymer, hydrogenated:

Test Type: Maximization Test Routes of exposure: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative

Germ cell mutagenicity

Not classified based on available information.

Ingredients:

White mineral oil (petroleum):

Genotoxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Result: negative
Genotoxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials

Dec-1-ene, homopolymer, hydrogenated:

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:

White mineral oil (petroleum):

Species: Rat

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Exposi	ation Route: Ingestion ure time: 24 Months : negative			
IARC		e		product present at levels greater than or ntified as probable, possible or confirmed y IARC.
OSHA				s product present at levels greater than or OSHA's list of regulated carcinogens.
NTP		e		product present at levels greater than or ntified as a known or anticipated carcinogen
Not cla	ductive toxicity Issified based on availa	ble	information.	
Ingred	lients:			
	mineral oil (petroleun	ו):		
Effects	on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Skin contact
Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	ro-fetal development : Ingestion
Dec-1-	ene, homopolymer, h	ydr	ogenated:	
Effects	s on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
STOT-	single exposure			
Not cla	ssified based on availa	ble	information.	

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Ingredients:

White mineral oil (petroleum):

Species: Rat LOAEL: > 160 mg/kg Application Route: Ingestion Exposure time: 90 Days

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Species: Rat LOAEL: >= 1 mg/l Application Route: inhalation (dust/mist/fume) Exposure time: 4 Weeks Method: OECD Test Guideline 412

Dec-1-ene, homopolymer, hydrogenated:

Species: Rat NOAEL: 4,159.4 mg/kg Application Route: Ingestion Exposure time: 91 Days

Aspiration toxicity

Not classified based on available information.

Ingredients:

White mineral oil (petroleum):

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Dec-1-ene, homopolymer, hydrogenated:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

White mineral oil (petroleum):

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- icity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l Exposure time: 28 d
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 1,000 mg/l Exposure time: 21 d

Dec-1-ene, homopolymer, hydrogenated:

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Toxicit	y to fish	:	Exposure time: 96	nus mykiss (rainbow trout)): > 1,000 mg/l 5 h Vater Accommodated Fraction
	y to daphnia and other c invertebrates	:	Exposure time: 48	Vater Accommodated Fraction
Toxicit	y to algae	:	1,000 mg/l Exposure time: 72	Vater Accommodated Fraction
			1,000 mg/l Exposure time: 72	Vater Accommodated Fraction
	y to daphnia and other c invertebrates (Chron- ity)	:	Exposure time: 21	Vater Accommodated Fraction
Toxicit	y to microorganisms	:	NOEC: 2 mg/l Exposure time: 28 Method: OECD Te	d est Guideline 301D
Persis	tence and degradabili	ity		
Ingred	ients:			
	mineral oil (petroleum Iradability	ו): :	Result: Not readily Biodegradation: 3 Exposure time: 28	31 %
	ene, homopolymer, h	ydr	-	
Biodeg	radability	:	Result: Not readily Biodegradation: 2 Exposure time: 28 Method: OECD Te	2 %
Bioaco	cumulative potential			
Ingred	ients:			
	ene, homopolymer, h n coefficient: n- l/water	-		

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	ity in soil ta available			
Other	Other adverse effects			
No da	No data available			
SECTION	13. DISPOSAL CON	SIDERATIONS		

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.

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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SAR	A 313		known CAS num	es not contain any chemical components with bers that exceed the threshold (De Minimis) established by SARA Title III, Section 313.
US S	tate Regulations			
	sylvania Right To Kn White mineral oil (Dec-1-ene, homo	(petrol		8042-47-5 68037-01-4
This	ornia Prop. 65 product does not conta or any other reproduct			to the State of California to cause cancer,
Calif	ornia List of Hazardou White mineral oil (8042-47-5
Calif	ornia Permissible Exp White mineral oil (nical Contaminants 8042-47-5
The i	ngredients of this pro	duct	are reported in t	he following inventories:
REA	СН	:	ingredients are of REACH. Please purchases from	om Dow Chemical EU legal entities, all urrently pre/registered or exempt under refer to section 1 for recommended uses. For non-EU Dow Chemical legal entities with the rt into EEA please contact your DC cal office.
TSCA	Ą	:	All chemical sub	stances in this product are either listed on the or are in compliance with a TSCA Inventory
AICS	i	:	All ingredients lis	ted or exempt.
IECS	С	:	All ingredients lis	ted or exempt.
ENC	S/ISHL	:		are listed on ENCS/ISHL or exempted from
KECI		:	inventory listing. All ingredients lis	ted, exempt or notified.
PICC	S	:	All ingredients lis	ted or exempt.
DSL		:	1999 and NSNR	stances in this product comply with the CEPA and are on or exempt from listing on the stic Substances List (DSL).

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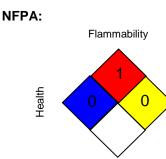
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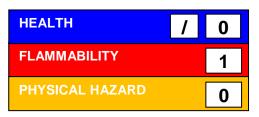
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SECTION 16. OTHER INFORMATION

Further information



HMIS® IV:



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

Special hazard.

ACGIH NIOSH REL OSHA Z-1	:	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
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)

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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.

US / Z8