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SECTION 1. IDENTIFICATION

Product name	:	ULTIMATE DEEP SEAL VACUUM PUMP
Manufacturer or supplier's	det	ails
Company name of supplier	:	APPION INC 2800 S Tejon St
		Englewood, CO 80110-1208
Telephone	:	3039371580
Telefax	:	3039371599
Emergency telephone num- ber	:	
Recommended use of the c	her	nical and restrictions on use
Recommended use	:	Lubricating oil
Restrictions on use	:	Restricted to professional users.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Mineral oil.

Components

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated	64742-54-7	Trade secret (>= 80 - <= 100)
heavy paraffinic		

Actual concentration is withheld as a trade secret



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SECTION	I 4. FIRST AID MEASU	IRES				
lf inh	aled	:	Remove person to fresh air. If sign medical attention. Keep patient warm and at rest. If breathing is irregular or stopped, tion.			
In ca	se of skin contact	:	Remove contaminated clothing. If ical attention. In case of contact, immediately flu			
In ca	se of eye contact	:	Rinse immediately with plenty of w for at least 10 minutes. If eye irritation persists, consult a s			
lf swa	allowed	:	Move the victim to fresh air. Do NOT induce vomiting. Rinse mouth with water.			
	important symptoms effects, both acute and /ed	:	No information available. None known.			
Note	s to physician	:	No information available.			

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide.
Unsuitable extinguishing media	:	High volume water jet
Hazardous combustion prod- ucts	:	Carbon oxides
Further information	:	Standard procedure for chemical fires.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-	:	Evacuate personnel to safe areas.
tive equipment and emer-		Use personal protective equipment.
gency procedures		Refer to protective measures listed in sections 7 and 8.



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E	nvironmental precautions	 Try to prevent the material fro courses. Prevent further leakage or spi Local authorities should be ac cannot be contained. 	llage if safe to do so.
	ethods and materials for ontainment and cleaning up		earth, diatomaceous earth, ver- er for disposal according to local

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. Wash hands and face before breaks and immediately after handling the product.
Conditions for safe storage	Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Distillates (petroleum), hy- drotreated heavy paraffinic	64742-54-7	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL

Engineering measures : none

Personal protective equipment

Respiratory protection : Not required; except in case of aerosol formation.



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Filter type		:	Filter type A-P	
M: Br	Hand protection aterial reak through time rotective index	:	Nitrile rubber > 10 min Class 1	
Re	emarks	:	For prolonged or repeated contact use p break through time depends amongst oth material, the thickness and the type of gl has to be measured for each case.	ner things on the
Eye p	protection	:	Safety glasses with side-shields	
Prote	ctive measures	:	The type of protective equipment must b to the concentration and amount of the d at the specific workplace. Choose body protection in relation to its tration and amount of dangerous substan- cific work-place.	angerous substance type, to the concen-
Hygie	ene measures	:	Wash face, hands and any exposed skin handling.	thoroughly after

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	colourless
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	Not applicable
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Boiling point/boiling range Flash point	:	No data available >= 430 °F / 221 °C
	:	
	:	>= 430 °F / 221 °C
Flash point	:	>= 430 °F / 221 °C Method: open cup



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Self-	ignition	:	No data available	
	er explosion limit / Upper mability limit	:	No data available	
	er explosion limit / Lower mability limit	:	No data available	
Vapo	our pressure	:	< 0.001 hPa (68 °F / 20 °C)	
Rela	tive vapour density	:	No data available	
Rela	tive density	:	0.872 (68 °F / 20 °C) Reference substance: Water The value is calculated	
Bulk	density	:	No data available	
	bility(ies) /ater solubility	:	insoluble	
S	olubility in other solvents	s :	No data available	
	tion coefficient: n- nol/water	:	No data available	
Auto	-ignition temperature	:	No data available	
Deco	omposition temperature	:	No data available	
Visco V	osity ïscosity, dynamic	:	No data available	
V	iscosity, kinematic	:	70 mm2/s (104 °F / 40 °C)	
Expl	osive properties	:	Not explosive	
Oxid	izing properties	:	No data available	
Subl	imation point	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No hazards to be specially mentioned.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	No dangerous reaction known under conditions of normal use.



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Cond	litions to avoid	: No conditions to be specially mention	ed.
Incompatible materials		: No materials to be especially mention	ed.
Haza produ	rdous decomposition ucts	: No decomposition if stored and applie	ed as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity		
Product:		
Acute oral toxicity	:	Remarks: This information is not available.
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Remarks: This information is not available.
Components:		
Distillates (petroleum), hydr	otr	eated heavy paraffinic:
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute inhalation toxicity	:	LC50 (Rat): > 5.53 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402
Skin corrosion/irritation		
Product:		
Remarks	:	This information is not available.
Components:		
Distillates (petroleum), hydr	otr	eated heavy paraffinic:
Species Assessment Method Result GLP		Rabbit No skin irritation OECD Test Guideline 404 No skin irritation yes



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Serio	us eye damage/eye	rritation		
Prod	uct:			
Rema		: This information	is not available.	
Com	oonents:			
Distil	lates (petroleum), h	drotreated heavy par	affinic:	
Speci		: Rabbit		
Resu		: No eye irritation		
Asses	ssment	: No eye irritation		
Metho	bd	: OECD Test Gui	deline 405	
GLP		: yes		
Resp	iratory or skin sens	isation		
Prod				
Rema	arks	: This information	is not available.	
<u>Com</u>	oonents:			
Distil	lates (petroleum), h	drotreated heavy par	affinic:	
Speci	es	: Guinea pig		
•	ssment		skin sensitisation.	
Metho	bd	: OECD Test Gui	deline 406	
Resu	lt	: Does not cause	skin sensitisation.	
GLP		: yes		
Germ	cell mutagenicity			
Prod	uct:			
Geno	toxicity in vitro	: Remarks: No da	ata available	
Geno	toxicity in vivo	: Remarks: No da	ata available	
Carci	nogenicity			
Prod	uct:			
Rema	arks	: No data availab	le	
<u>Com</u>	oonents:			
Distil	lates (petroleum). h	drotreated heavy par	affinic:	
	nogenicity - Assess-		as a human carcinogen.	
ment			ac a naman oaronogon.	
IARC	No compo	ent of this product pres	ent at levels greater than or equal to 0.	1%



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IARC OSHA			f this product present at levels great f regulated carcinogens.	er than or equal to 0.1% is	
NTP	No component of this product present at levels greater than or equal to 0.1% identified as a known or anticipated carcinogen by NTP.				
Reproc	luctive toxicity				
Produc	: <u>t:</u>				
Effects	on fertility	:	Remarks: No data available		
Effects ment	on foetal develop-	:	Remarks: No data available		
Compo	onents:				
Distilla	tes (petroleum), h	ydrotr	eated heavy paraffinic:		
•	uctive toxicity - As-	:	- Fertility -		
sessme	ent		No toxicity to reproduction		
Repeat	ed dose toxicity				
<u>Produc</u>	: <u>t:</u>				
Remark	(S	:	This information is not available.		
Aspirat	tion toxicity				
Produc	:t:				
This inf	ormation is not avai	lable.			
<u>Compo</u>	onents:				
Distilla	tes (petroleum), h	ydrotr	eated heavy paraffinic:		
	iration toxicity class	-			
Furthe	r information				
Produc	<u>:t:</u>				
Remark		:	Information given is based on data the toxicology of similar products.	a on the components and	



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available

Components:

Distillates (petroleum), hydrotreated heavy paraffinic:

Toxicity to fish :	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202 GLP: yes
Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity)	NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211 GLP: yes

Persistence and degradability

Product:

Biodegradability	:	Remarks: No data available
Physico-chemical removabil- ity	:	Remarks: No data available

Components:

Distillates (petroleum), hydrotreated heavy paraffinic:

Biodegradability	:	aerobic
		Inoculum: activated sludge



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			Result: Not rapidly biodegradable Biodegradation: 3 % Exposure time: 28 d Method: OECD Test Guideline 307 GLP: yes	IB
Bioad	ccumulative potential			
<u>Prod</u> e Bioac	uct: cumulation	:	Remarks: This mixture contains no be persistent, bioaccumulating and This mixture contains no substanc persistent and very bioaccumulatin	d toxic (PBT). e considered to be very
Com	ponents:			
Distil	lates (petroleum), hyd	drotre	eated heavy paraffinic:	
	ion coefficient: n- ol/water	:	log Pow: > 2	
Mobi	lity in soil			
Prod	uct:			
Mobil	ity	:	Remarks: No data available	
	bution among environ- al compartments	:	Remarks: No data available	
Othe	r adverse effects			
Prod	uct:			
Ozon	e-Depletion Potential	:	Regulation: 40 CFR Protection of I tection of Stratospheric Ozone - C. Substances Remarks: This product neither con tured with a Class I or Class II OD Clean Air Act Section 602 (40 CFR	AA Section 602 Class I Itains, nor was manufac- S as defined by the U.S.
Additi matio	ional ecological infor- n	:	No information on ecology is availa	able.
<u>Com</u>	ponents:			
Distil	lates (petroleum), hyd	drotre	eated heavy paraffinic:	
Resu	Its of PBT and vPvB	:	Non-classified vPvB substance No	n-classified PBT substar

Results of PBT and vPvB : Non-classified vPvB substance Non-classified PBT substance assessment



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil.
Contaminated packaging	:	Packaging that is not properly emptied must be disposed of as the unused product. Dispose of waste product or used containers according to local regulations.

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.

National Regulations

49 CFR Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

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	: This material does not contain a known CAS numbers that excert reporting levels established by the stablished by the s	ed the threshold (De Minimis)
Clear	n Air Act		
the U This p Air Ao This p Accid	S. Clean Air Act See product does not con at Section 112 (40 Cl product does not con ental Release Preve	ins, nor was manufactured with a Class ction 602 (40 CFR 82, Subpt. A, App.A + tain any hazardous air pollutants (HAP), FR 61). tain any chemicals listed under the U.S. ntion (40 CFR 68.130, Subpart F). tain any chemicals listed under the U.S.	B). as defined by the U.S. Clean Clean Air Act Section 112(r) fo
		nal VOC's (40 CFR 60.489).	
Clear	Water Act		
	product does not con on 311, Table 116.4/	tain any Hazardous Substances listed u	nder the U.S. CleanWater Act,
This p	product does not con	tain any Hazardous Chemicals listed un	der the U.S. CleanWater Act,
	on 311, Table 117.3. product does not con	tain any toxic pollutants listed under the	U.S. Clean Water Act Section
307			
	tate Regulations	tain any priority pollutants related to the	U.S. Clean Water Act
	-	V =	
mass	achusetts Right To	s are subject to the Massachusetts Right	to Know Act
Penn	sylvania Right To k		
		bleum), hydrotreated heavy paraffinic	64742-54-7
Main	e Chemicals of Higl	n Concern	
	Product does no	ot contain any listed chemicals	
Verm	ont Chemicals of H	ligh Concern	
	Product does no	ot contain any listed chemicals	
Wash	ington Chemicals	•	
		ot contain any listed chemicals	
New	York City Hazardou	s Substances bleum), hydrotreated middle	64742-46-7
Calif	ornia Prop. 65	Seam), mydrotreated middle	04742-40-7
This p	•	tain any chemicals known to State of Ca oductive harm.	lifornia to cause cancer, birth
Califo		xposure Limits for Chemical Contami bleum), hydrotreated heavy paraffinic	nants 64742-54-7
TSCA	list		
No su	ibstances are subjec	t to a Significant New Use Rule.	

No substances are subject to TSCA 12(b) export notification requirements.



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SECTION 16. OTHER INFORMATION

Further information

Full text of other abbreviations					
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)			
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits			
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000			
OSHA Z-1	:	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 P0 / TWA	:	8-hour time weighted average			
OSHA Z-1 / TWA	:	8-hour time weighted average			

AIIC - Australian Inventory of Industrial Chemicals; 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 Sub-

SAFETY DATA SHEET



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stance 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

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