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Version 2.1	Revision Date: 2024-05-16		e of last issue: 2022-12-21 e of first issue: 2021-10-20	Print Date: 2024-05-16
SECTION	1. IDENTIFICATION			
Produ	uct name	:	SynGear PS FG-680	
Articl	e-No.	:	340249	
Othe	Other means of identification		No data available	
Manu	ufacturer or supplier's	deta	ils	
Com	Company name of supplier		Klüber Lubrication NA LP 9010 County Road 2120 Tyler, Texas 75707 USA Phone: +1 903 534 8021 Fax: +1 903 581 4376	
			32 Industrial Drive Londonderry, NH 03053 USA Phone: +1 603 647 4104 Fax: +1 603 647 4106	
	il address of person onsible for the SDS	:	mcm@us.kluber.com	
	Emergency telephone number		+1 517 545 7070 NCEC	
Reco	ommended use of the o	chen	nical and restrictions on use	
Reco	mmended use	:	Lubricating oil	
Restr	rictions on use	:	Restricted to professional users.	

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accor	dan	ce with the Hazardous Products Regulations
Reproductive toxicity	:	Category 2

GHS label elements

Hazard pictograms



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Signal word
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: Warning



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Haza	rd statements	: Suspected of damaging fertility.	
Preca	autionary statements	 Prevention: Obtain special instructions before Do not handle until all safety preca understood. Wear protective gloves/ protective protection. 	autions have been read and
		Response: IF exposed or concerned: Get me Storage: Store locked up.	dical advice/ attention.
		Disposal: Dispose of contents/ container to a plant.	an approved waste disposal
•	r hazards known.		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

:

Substance / Mixture

: Mixture

Chemical nature

Mineral oil. Polymer

Components

	Common Name/Synonym	CAS-No.	Concentration (% w/w)
products with 2,4,4- trimethylpentene	Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpenten e	68411-46-1	Trade secret (>= 0.1 - < 1 *)

* Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled

: Obtain medical attention. Remove person to fresh air. If signs/symptoms continue, get





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			medical attention. Keep patient warm and at rest. If unconscious, place in recovery positic advice. Keep respiratory tract clear. If breathing is irregular or stopped, adm respiration.	
In ca	se of skin contact	:	Take off all contaminated clothing imme Get medical attention immediately if irrit persists. Wash clothing before reuse. Thoroughly clean shoes before reuse. Wash off immediately with plenty of wat	ation develops and
In ca	se of eye contact	:	Rinse immediately with plenty of water, for at least 10 minutes. If eye irritation persists, consult a specia	
If sw	allowed	:	Move the victim to fresh air. If unconscious, place in recovery positic advice. Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water. Never give anything by mouth to an unc	
	t important symptoms effects, both acute and yed	:	None known. No symptoms known or expected.	
Note	s to physician	:	Treat symptomatically.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	:	High volume water jet
Hazardous combustion products	:	Carbon oxides Nitrogen oxides (NOx)
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





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health.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Do not breathe vapours or spray mist. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling :	Do not breathe vapours or spray mist. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Wash hands and face before breaks and immediately after handling the product. Do not get in eyes or mouth or on skin. Do not get on skin or clothing. Do not get on skin or clothing. Do not repack. Do not re-use empty containers. These safety instructions also apply to empty packaging which may still contain product residues. Keep container closed when not in use.
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.





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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
White mineral oil (petroleum)	8042-47-5	TWA (Mist)	5 mg/m3	CA AB OEL (2009-04-30)
		STEL (Mist)	10 mg/m3	CA AB OEL (2009-04-30)
		TWAEV (Mist - Inhalable dust)	5 mg/m3	CA QC OEL (2022-04-13)
		TWA (Mist)	1 mg/m3	CA BC OEL (2021-01-04)
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH (2013-03-01)

Engineering measures	:	Handle only in a place equipped with local exhaust (or other
		appropriate exhaust).

Personal protective equipment

Respiratory protection	:	Not required; except in case of aerosol formation.
Filter type	:	Filter type A-P
Hand protection Material Break through time Protective index	: :	Nitrile rubber > 10 min Class 1
Remarks	:	Wear protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.
Eye protection	:	Safety glasses with side-shields
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Protective measures	:	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures	:	Wash face, hands and any exposed skin thoroughly after





Syn	Gear	PS FG-680			
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				handling.	
SEC	TION 9	. PHYSICAL AND CH	IEMIC	CAL PROPERTIES	
	Appea	rance	:	liquid	
	Colour		:	yellow	
	Odour		:	hydrocarbon-like	
	Odour	Threshold	:	No data available	
	рН		:	Not applicable	
	Melting	g point/range	:	No data available	
	Boiling	point/boiling range	:	No data available	
	Flash p	point	:	>= 204 °C	
				Method: open cup	
	Evapor	ration rate	:	No data available	
	Flamm	ability (solid, gas)	:	Not applicable	
	Self-ig	nition	:	No data available	
		explosion limit / Uppe ability limit	r:	No data available	
		explosion limit / Lowe ability limit	r:	No data available	
	Vapou	r pressure	:	< 0.001 hPa (20 °C)	
	Relativ	e vapour density	:	No data available	
	Relativ	e density	:	0.873 (20 °C) Reference substance: Water The value is calculated	
	Bulk de	ensity	:	No data available	





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		ity(ies) ter solubility ubility in other solvents	:	insoluble No data available	
	Partitio octano	n coefficient: n- l/water	:	No data available	
	Auto-ig	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
		ity cosity, dynamic cosity, kinematic	:	No data available 680 mm2/s (40 °C)	
	Explos	ive properties	:	Not explosive	
		ng properties ation point	:	No data available No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No hazards to be specially mentioned.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	No conditions to be specially mentioned.
Incompatible materials	:	No materials to be especially mentioned.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Produ	ict:	
Acute	oral	toxicit

Acute oral toxicity	:	Remarks: This information is not available.	
Acute inhalation toxicity	:	Remarks: This information is not available.	
		a human di af	

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Acute	e dermal toxicity	:	Remarks: This information is not a	vailable.
Com	ponents:			
Benz	enamine, N-phenyl-	, react	on products with 2,4,4-trimethylp	entene:
Acute	e oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 407	I
Acute	e dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mi toxicity	
Skin	corrosion/irritation			
Prod	uct:			
Rema	arks	:	This information is not available.	
Com	ponents:			
Benz	enamine, N-phenyl-	, react	on products with 2,4,4-trimethylp	entene:
Spec	ies	:	Rabbit	
	ssment	:	No skin irritation	
Meth		:	OECD Test Guideline 404	
Resu	It	:	No skin irritation	
Serio	ous eye damage/eye	irritati	on	
Prod	uct:			
Rema	arks	:	This information is not available.	
Com	ponents:			
Benz	enamine, N-phenyl-	, react	on products with 2,4,4-trimethylp	entene:
~	_	:	Rabbit	
Spec			No ava irritation	
Resu	lt	:	No eye irritation	
Resu Asse	lt ssment	:	No eye irritation	
Resu	lt ssment	:		
Resu Asse Methe	lt ssment	itisatio	No eye irritation OECD Test Guideline 405	
Resu Asse Meth	lt ssment od iratory or skin sens	itisatic	No eye irritation OECD Test Guideline 405	





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Com	ponents:			
Benz	enamine, N-phenyl	-, react	ion products with 2,4,4-trimethylp	pentene:
Speci		:	Guinea pig	
	ssment	:	Did not cause sensitisation on lab	oratory animals.
Metho Resu		-	OECD Test Guideline 406 Did not cause sensitisation on lab	orotony onimala
Resu	IL		Did not cause sensitisation on lab	oratory animals.
Germ	cell mutagenicity			
Prod	uct:			
Geno	toxicity in vitro	:	Remarks: No data available	
Geno	toxicity in vivo	:	Remarks: No data available	
Carci	nogenicity			
Prod	uct:			
Rema	arks	:	No data available	
Repr	oductive toxicity			
Prod	uct:			
Effect	ts on fertility	:	Remarks: No data available	
	ts on foetal opment	:	Remarks: No data available	
Com	ponents:			
Benz	enamine, N-phenyl	-, react	ion products with 2,4,4-trimethyl	pentene:
•		:	- Fertility -	
Asses	ssment		Some evidence of adverse effects	on sexual function and
			fertility, based on animal experime	ents.
STOT	「- single exposure			
Prod	uct:			
Rema	arks	:	No data available	
STOT	- repeated exposu	ire		
Prod	uct:			
Rema	arks	:	No data available	
Repe	ated dose toxicity			
Prod	uct:			
				a brand of





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Rem	arks	:	This information is not available.	
Prod	ration toxicity l <u>uct:</u> information is not ava	ilable.		
Furth	ner information			
<u>Prod</u> Rema		:	Information given is based on data the toxicology of similar products.	a on the components and

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:		
Benzenamine, N-phenyl-, rea	icti	ion products with 2,4,4-trimethylpentene:
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 51 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202





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Toxic plants	ity to algae/aquatic s	:	EC50 (Desmodesmus subspic Exposure time: 72 h Test Type: static test Method: OECD Test Guideline	
Persi	stence and degrada	bility		
Prod				
Biode	egradability	:	Remarks: No data available	
	co-chemical vability	:	Remarks: No data available	
<u>Com</u>	ponents:			
	enamine, N-phenyi-,	, reacti	on products with 2,4,4-trimeth aerobic Inoculum: activated sludge Result: Not rapidly biodegrada Biodegradation: 1 % Exposure time: 28 d Method: OECD Test Guideline GLP: yes	ble
Bioad	ccumulative potentia	al		
Prod	uct:			
Bioac	cumulation	:	Remarks: Product does not co persistent, bioaccumulative, ar or higher. Product does not contain subs persistent and very bioaccumu or higher.	nd toxic (PBT) at levels of 0.1 tances which are very
<u>Com</u>	ponents:			
Partiti	ion coefficient: n-	, reacti :	on products with 2,4,4-trimeth log Pow: 5.2 - 10.82	hylpentene:
octan	ol/water			
Mobi	lity in soil			
Prod				
Mobil	ity	:	Remarks: No data available	
				a brand of





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	oution among Inmental compartment	-	Remarks: No data available	
Other	adverse effects			
Produ Additio inform	onal ecological	:	No information on ecology is available.	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues :	The product should not be allowed to enter drains, water courses or the soil. Do not dispose of with domestic refuse. Dispose of as hazardous waste in compliance with local and national regulations.
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

TDG Not regulated as a dangerous good

Special precautions for user

Not applicable





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SECTION 15. REGULATORY INFORMATION

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA AB OEL / STEL	:	15-minute occupational exposure limit
CA BC OEL / TWA		8-hour time weighted average
CA QC OEL / TWAEV	:	Time-weighted average exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan





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Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals 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; WHMIS - Workplace Hazardous Materials Information System

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