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ersion 0	Revision Date: 03/20/2024	Date of last issue: Date of first issue:		Print Date: 05/16/2024
ECTION	1. IDENTIFICATION			
Produ	uct name	: SynGear PS I	=G-680	
Article	e-No.	: 340249		
Manu	afacturer or supplier'	details		
Com	bany name of supplier	 Klüber Lubrica 9010 County Tyler, Texas 7 USA Phone: +1 90 Fax: +1 903 5 32 Industrial I Londonderry, USA Phone: +1 60 Fax: +1 603 6 	Road 2120 75707 3 534 8021 81 4376 Drive NH 03053 3 647 4104	
	il address of person onsible for the SDS	: mcm@us.klub	per.com	
Emer numb	gency telephone ber	: +1 517 545 7(070 NCEC	
Reco	mmended use of the	hemical and restr	ictions on use	
Reco	mmended use	: Lubricating oil	l	
Restr	ictions on use	: Restricted to	professional users.	

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in acc 1910.1200)	ordance with the OSHA Hazard Communication Standard	(29 CFR
Reproductive toxicity	: Category 2	
GHS label elements		
Hazard pictograms		
Signal word	: Warning	
	a brand of	





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Hazaı	rd statements	: Su	spected of damaging	fertility.
Preca	autionary statements	: Pre	evention:	
		Ob Do uno We	tain special instructio not handle until all sa lerstood.	ns before use. afety precautions have been read ar protective clothing/ eye protection/ f
			sponse: exposed or concerne	d: Get medical advice/ attention.
		Sto	rage: re locked up.	
		Dis	posal:	
			pose of contents/ con	ntainer to an approved waste dispos
Other	r hazards			
None	known.			
CTION	3. COMPOSITION/IN	FORMATI		TS
Subst	ance / Mixture	: Mix	ture	
Cherr	nical nature		neral oil. ymer	
Comp	ponents			
	nical name		CAS-No.	Concentration (% w/w)
Bonzo	enamine, N-phenyl-, re		68411-46-1	Trade secret (>= 0.1 - < 1)
	icts with 2,4,4-trimethy	pointonio		

SECTION 4. FIRST AID MEASURES

If inhaled : Obtain medical attention. Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial





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			respiration.	
In ca	se of skin contact	:	Take off all contaminated clothing immed Get medical attention immediately if irrita persists. Wash clothing before reuse. Thoroughly clean shoes before reuse. Wash off immediately with plenty of wate	ation develops and
In ca	se of eye contact	:	Rinse immediately with plenty of water, a for at least 10 minutes. If eye irritation persists, consult a special	•
lf swa	allowed	:	Move the victim to fresh air. If unconscious, place in recovery position advice. Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water. Never give anything by mouth to an unco	
	important symptoms effects, both acute and red	:	None known. No symptoms known or expected.	
Notes	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 health.

SECTION 6. ACCIDENTAL RELEASE MEASURES





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pro	ersonal precautions, otective equipment and nergency 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 se	ections 7 and 8.
En	vironmental precautions	:	Try to prevent the material from entering courses. Prevent further leakage or spillage if saf Local authorities should be advised if sig cannot be contained.	e to do so.
	ethods and materials for ntainment and cleaning up	:	Contain spillage, and then collect with n absorbent material, (e.g. sand, earth, dia vermiculite) and place in container for di local / national regulations (see section	atomaceous earth, sposal according to

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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

	Components	CAS-No.	Value type	Control	Basis
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				(Form of exposure)	parameters / Permissible concentration	
White	e mineral oil (petroleum)	8042-47-5	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH (2013-03-(
				TWA (Mist)	5 mg/m3	OSHA Z-1 (2018-03-2
				TWA (Mist)	5 mg/m3	NIOSH RE (2019-10-0
				ST (Mist)	10 mg/m3	NIOSH RE (2019-10-0
Engir	neering measures	:	Handle only in appropriate e		bed with local exhau	ust (or other
Perso	onal protective equip	ment				
Respi	iratory protection	:	Not required;	except in case	of aerosol formation).
Fil	ter type	:	Filter type A-I	P		
Ma Br	protection aterial eak through time otective index	::	Nitrile rubber > 10 min Class 1			
Re	emarks	:	amongst othe	er things on the	break through time material, the thickne as to be measured	ess and the
Eye p	protection	:	Safety glasse	es with side-shie	lds	
Skin a	and body protection	:		and amount of	lation to its type, to dangerous substan	
Prote	ctive measures	:		tration and amo	nent must be selecto ount of the dangerou	
Hygie	ne measures	:	Wash face, h handling.	ands and any e	xposed skin thoroug	ghly after

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid





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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	:	>= 399 °F / 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 / Upper ability limit	r :	No data available	
	explosion limit / Lower ability limit	r :	No data available	
Vapou	r pressure	:	< 0.001 hPa (68 °F / 20 °C)	
Relativ	e vapour density	:	No data available	
Relativ	e density	:	0.873 (68 °F / 20 °C) Reference substance: Water The value is calculated	
Bulk de	ensity	:	No data available	
Solubil Wa	ity(ies) ter solubility	:	insoluble	
Sol	ubility in other solvents	S :	No data available	
Partitio octano	n coefficient: n- I/water	:	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

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:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

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





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		Method: OECD Test Guideli	ne 401
Acute	e dermal toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guidelii Assessment: The substance toxicity	ne 402 e or mixture has no acute derma
Skin	corrosion/irritation		
Prod	uct:		
Rema	arks	: This information is not availa	able.
<u>Com</u>	ponents:		
Benz	enamine, N-phenyl	-, reaction products with 2,4,4-trim	ethylpentene:
Speci	ies	: Rabbit	
Asses	ssment	: No skin irritation	
Metho		: OECD Test Guideline 404	
Resu	lt	: No skin irritation	
Serio	ous eye damage/eye		
	ous eye damage/eyo uct:		able.
Serio <u>Produ</u> Rema	ous eye damage/eyo uct:	irritation	able.
Serio <u>Produ</u> Rema <u>Com</u>	o us eye damage/ey o uct: arks ponents:	irritation	
Serio <u>Produ</u> Rema <u>Com</u>	ous eye damage/eye u <u>ct:</u> arks ponents: enamine, N-phenyl	e irritation : This information is not availa	
Serio Produ Rema Comj Benz Speci Resul	ous eye damage/eye u <u>ct:</u> arks ponents: enamine, N-phenyl ies It	 irritation This information is not availated by the second structure of the	
Serio Produ Rema Comj Benz Speci Resul Asses	ous eye damage/eye uct: arks ponents: enamine, N-phenyl ies It ssment	 irritation : This information is not availa , reaction products with 2,4,4-trime : Rabbit : No eye irritation : No eye irritation : No eye irritation 	
Serio Produ Rema Com Benz Speci Resul Asses Metho	ous eye damage/eye uct: arks ponents: enamine, N-phenyl ies lt ssment od	 irritation This information is not availant reaction products with 2,4,4-trimed Rabbit No eye irritation No eye irritation OECD Test Guideline 405 	
Serio Produ Rema Com Benz Speci Resul Asses Metho	ous eye damage/eye uct: arks ponents: enamine, N-phenyl ies It ssment	 irritation This information is not availant reaction products with 2,4,4-trimed Rabbit No eye irritation No eye irritation OECD Test Guideline 405 	
Serio Produ Rema Speci Resul Asses Metho Resp Produ	uus eye damage/eye uct: arks ponents: enamine, N-phenyl ies It ssment od iratory or skin sens uct:	e irritation : This information is not availa -, reaction products with 2,4,4-trime : Rabbit : No eye irritation : No eye irritation : OECD Test Guideline 405 sitisation	ethylpentene:
Serio Produ Rema Comj Benz Speci Resul Asses Metho Resp	uus eye damage/eye uct: arks ponents: enamine, N-phenyl ies It ssment od iratory or skin sens uct:	 irritation This information is not availant reaction products with 2,4,4-trimed Rabbit No eye irritation No eye irritation OECD Test Guideline 405 	ethylpentene:
Serio Produ Rema Speci Resul Asses Metho Resp Produ Rema	uus eye damage/eye uct: arks ponents: enamine, N-phenyl ies It ssment od iratory or skin sens uct:	e irritation : This information is not availa -, reaction products with 2,4,4-trime : Rabbit : No eye irritation : No eye irritation : OECD Test Guideline 405 sitisation	ethylpentene:
Serio Produ Rema Speci Resul Asses Metho Resp Produ Rema	ous eye damage/eye uct: arks ponents: enamine, N-phenyl ies It ssment od iratory or skin sen uct: arks	e irritation : This information is not availa -, reaction products with 2,4,4-trime : Rabbit : No eye irritation : No eye irritation : OECD Test Guideline 405 sitisation	ethylpentene: able.
Serio Produ Rema Speci Resul Asses Metho Resp Produ Rema	ous eye damage/eye uct: arks ponents: enamine, N-phenyl ies lt ssment od iratory or skin sen uct: arks ponents: enamine, N-phenyl	e irritation : This information is not availa -, reaction products with 2,4,4-trime : Rabbit : No eye irritation : No eye irritation : OECD Test Guideline 405 sitisation : This information is not availa	ethylpentene: able.
Serio Produ Rema Speci Resul Asses Metho Resp Produ Rema Speci Asses	arks ponents: enamine, N-phenyl ies It ssment od iratory or skin sen: uct: arks ponents: enamine, N-phenyl ies ssment	 irritation This information is not availated to the second struct with 2,4,4-trime Rabbit No eye irritation No eye irritation OECD Test Guideline 405 itisation This information is not availated to the second struct structure This information is not availated to the second structure Guinea pig Did not cause sensitisation to the second structure 	ethylpentene: able. ethylpentene:
Serio Produ Rema Speci Resul Asses Metho Resp Produ Rema Comp Speci	arks ponents: enamine, N-phenyl ies It ssment od iratory or skin sens uct: arks ponents: enamine, N-phenyl ies ssment od	e irritation : This information is not availa , reaction products with 2,4,4-trime : Rabbit : No eye irritation : No eye irritation : OECD Test Guideline 405 sitisation : This information is not availa , reaction products with 2,4,4-trime : Guinea pig	ethylpentene: able. ethylpentene: on laboratory animals.





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ersion)	Revisio 03/20/2	n Date: 024		e of last issue: 12/21/2022 e of first issue: 10/20/2021	Print Date: 05/16/2024
Germ	cell mut	agenicity			
Produ	ct:				
	oxicity in	vitro	:	Remarks: No data available	
Genot	oxicity in	vivo	:	Remarks: No data available	
Carcir	nogenicit	ty			
Produ	ct:				
Rema			:	No data available	
IARC				this product present at levels gro able, possible or confirmed huma	
IARC OSHA	L.			this product present at levels gro regulated carcinogens.	eater than or equal to 0.1% is
NTP				this product present at levels gro own or anticipated carcinogen by	
Repro	ductive	toxicity			
Produ	ct:				
	s on fertili	ity	:	Remarks: No data available	
	s on foeta opment	al	:	Remarks: No data available	
<u>Comp</u>	onents:				
	enamine, ductive to		eacti	on products with 2,4,4-trimeth - Fertility -	ylpentene:
Asses		JAICILY -	•	,	sta an annual function and
				Some evidence of adverse effe fertility, based on animal experi	
стот	- single	exposure			
Produ	ct:				
Rema			:	No data available	
STOT	- repeate	ed exposure			
<u>Produ</u>	ict:				
Rema			:	No data available	





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Repe	eated dose toxicity			
Prod	uct:			
Rema	arks	:	This information is not available.	
Aspi	ration toxicity			
Prod	uct:			
This i	information is not ava	ilable		
Furth	ner information			
Prod	uct:			
Rema	arks	:	Information given is based on data the toxicology of similar products.	on the components and

SECTION 12. ECOLOGICAL INFORMATION

D -	odι	
P I	οαι	ICT:

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

:

Components:

Benzenamine, N-phenyl-, rea	cti	on 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





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			Method: OECD Test Guideline 202	2
Toxic plants	ity to algae/aquatic	:	EC50 (Desmodesmus subspicatus Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 20	
Persi	stence and degrada	ability		
<u>Produ</u> Biode	<u>uct:</u> gradability	:	Remarks: No data available	
	co-chemical /ability	:	Remarks: No data available	
<u>Comp</u>	oonents:			
Benz	enamine, N-phenyl-	, reacti	on products with 2,4,4-trimethylp	pentene:
Biode	gradability	:	aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 1 % Exposure time: 28 d Method: OECD Test Guideline 30 GLP: yes	1B
Bioad	cumulative potenti	al		
Produ	uct:			
Bioac	cumulation	:	Remarks: Product does not contai persistent, bioaccumulative, and to or higher. Product does not contain substand persistent and very bioaccumulativ or higher.	oxic (PBT) at levels of 0.1 ces which are very
<u>Comp</u>	oonents:			

Partition coefficient: n- : log Pow: 7.11 octanol/water





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Мо	bility in soil			
Pro	duct:			
Mol	oility	:	Remarks: No data available	
	tribution among ironmental compartments	: s	Remarks: No data available	
Oth	er adverse effects			
Pro	duct:			
Ozo	Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part Protection of Stratospheric Ozone - CAA Section 602 Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defin U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A B).		- CAA Section 602 Class I ntains, nor was ass II ODS as defined by the	
	litional ecological rmation	:	No information on ecology is avail	able.

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





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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

Special precautions for user Not applicable

SECTION 15. REGULATORY INFORMATION

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	:	Reproductive toxicity
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.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA list

No substances are subject to a Significant New Use Rule.

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

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 Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1
	Limits for Air Contaminants





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ACGI	H/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			

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 Substance Inventory; 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

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