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Version 2.0	Revision Date: 12/19/2022	Date of last issue: 10/19/2021 Date of first issue: 10/19/2021	Print Date: 12/20/2022
SECTION	1. IDENTIFICATION		
Produ	uct name	: SYNGEAR PG-680F	
Articl	e-No.	: 340097	
Manu	ufacturer or supplier	s details	
Com	pany 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 	
	ail address of person	: mcm@us.kluber.com Material Compliance Manageme	ant
	rgency telephone	: +1-517-545-7070 NCEC	5111
	mmended use of the	e chemical and restrictions on use : Lubricating oil	
Restr	rictions on use	: Restricted to professional users	

SECTION 2. HAZARDS IDENTIFICATION

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

Reproductive toxicity	: Category 2	
GHS label elements Hazard pictograms		
Signal word	: Warning	



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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

lixture
1i

Chemical nature : polyalkylene glycol oil

Components

If inhaled

Chemical name	CAS-No.	Concentration (% w/w)				
Benzenamine, N-phenyl-, reaction	68411-46-1	Trade secret (>= 0.1 - < 1)				
products with 2,4,4-trimethylpentene						
Actual concentration is withheld as a trade secret						

al concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

: 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 respiration.





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In case of skin contact		 Remove contaminated clothing medical attention. In case of contact, immediately Wash clothing before reuse. Thoroughly clean shoes before 	flush skin with plenty of water.
In c	ase of eye contact	: Rinse immediately with plenty of for at least 10 minutes. If eye irritation persists, consult	-
lf sv	wallowed	 Move the victim to fresh air. If unconscious, place in recove advice. Keep respiratory tract clear. Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to 	
and	st important symptoms I effects, both acute and ayed	: No information available. None known.	
Not	es to physician	: No information available.	

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
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,	:	Evacuate personnel to safe areas.
protective equipment and		Use personal protective equipment.
emergency procedures		Ensure adequate ventilation.
		Refer to protective measures listed in sections 7 and 8.





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Envi	ronmental precautions	:	Do not allow contact with soil, sur Prevent further leakage or spillage If the product contaminates rivers respective authorities.	e if safe to do so.
Methods and materials for containment and cleaning up			Contain spillage, and then collect absorbent material, (e.g. sand, ea vermiculite) and place in containe local / national regulations (see se	rth, diatomaceous earth, r for disposal according to

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	Avoid inhalation of vapour or 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

Contains no substances with occupational exposure limit values.

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.





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Fil	ter 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 throu amongst other things on the material, th type of glove and therefore has to be m case.	he thickness and the
Eye p	protection	:	Safety glasses with side-shields	
Skin a	and body protection	:	Choose body protection in relation to its concentration and amount of dangerous the specific work-place.	
Prote	ctive measures	:	The type of protective equipment must he to the concentration and amount of the at the specific workplace.	
Hygie	ene measures	:	Wash face, hands and any exposed ski handling.	n thoroughly after

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	colourless
Odour	:	mild
Odour Threshold	:	No data available
рН	:	Not applicable substance/mixture is non-polar/aprotic
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available





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F	-lash p	oint	:	>= 450 °F / 232 °C	
				Method: open cup	
E	Evapora	ation rate	:	No data available	
F	Flamma	ability (solid, gas)	:	Not applicable	
5	Self-ign	ition	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
١	√apour	pressure	:	< 0.001 hPa (68 °F / 20 °C)	
F	Relative	e vapour density	:	No data available	
F	Relative	e density	:	1.050 (68 °F / 20 °C) Reference substance: Water The value is calculated	
E	Bulk de	nsity	:	No data available	
S	Solubilit Wate	ty(ies) er solubility	:	soluble	
	Solu	bility in other solvents	5 :	No data available	
	Partitior	n coefficient: n- /water	:	No data available	
A	Auto-igi	nition temperature	:	No data available	
۵	Decom	position temperature	:	No data available	
١	∕iscosit Visc	ty osity, dynamic	:	No data available	
	Visc	osity, kinematic	:	689 mm2/s (104 °F / 40 °C)	
E	Explosi	ve properties	:	Not explosive	
C	Oxidizir	ng properties	:	No data available	
S	Sublima	ation point	:	No data available	





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SECTION	10. STABILITY AND	DREACTIVITY	
Read	tivity	: No hazards to be specially mention	ed.

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

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-, re	act	ion products with 2,4,4-trimethylpentene:				
Acute oral toxicity		LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401				
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity				
Skin corrosion/irritation						
Product:						
Remarks	:	This information is not available.				
<u>Components:</u>						
Benzenamine, N-phenyl-, re	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:					
Species	:	Rabbit				
Assessment	:	No skin irritation				





Method : OECD Test Guideline 404 Result : No skin irritation Serious eye damage/eye irritation Product: Remarks : This information is not available. Components: Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Species : Rabbit Result : No eye irritation Assessment : No eye irritation Method : OECD Test Guideline 405 Respiratory or skin sensitisation Product: Remarks : This information is not available. Components: Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Species : Guinea pig Assessment : Did not cause sensitisation on laboratory animals. Method : OECD Test Guideline 406 Result : Did not cause sensitisation on laboratory animals. Method : Did not cause sensitisation on laboratory animals. Germ cell mutagenicity Product: Genotoxicity in vitro : Remarks: No data available Genotoxicity in vitro : Remarks: No data available Genotoxicity in vivo : Remarks: No data available IARC		Print Date: 12/20/2022	e of last issue: 10/19/2021 e of first issue: 10/19/2021	sion Date: Da	sion Revisio 12/19/2
Product: Remarks : This information is not available. Components: Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Species : Rabbit Result : No eye irritation Assessment : No eye irritation Method : OECD Test Guideline 405 Respiratory or skin sensitisation Product: Remarks : This information is not available. Components: Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Species : Guinea pig Assessment : Did not cause sensitisation on laboratory animals. Method : DECD Test Guideline 406 Result : Did not cause sensitisation on laboratory animals. Method : DECD Test Guideline 406 Result : Did not cause sensitisation on laboratory animals. Method : Did not cause sensitisation on laboratory animals. Gern cell mutagenicity Product: Genotoxicity in vitro : Remarks: No data available Genotoxicity in vitro : Remarks: No data available Carcinogenicity Product: Remarks : No data avail					
Remarks : This information is not available. Components: Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Species : Rabbit Result : No eye irritation Assessment : No eye irritation Method : OECD Test Guideline 405 Respiratory or skin sensitisation Product: Product: Remarks Remarks : This information is not available. Components: Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Species : Guinea pig Assessment : Did not cause sensitisation on laboratory animals. Method : Did not cause sensitisation on laboratory animals. Method : Did not cause sensitisation on laboratory animals. Germ cell mutagenicity Product: Genotoxicity in vitro : Remarks: No data available Genotoxicity in vivo : Remarks: No data available Carcinogenicity Product: Remarks : No data available IARC No component of this product present at levels greater than or equal to identified as probable, possible or confirmed human carcinogen by IAR			on	e damage/eye irrita	Serious eye da
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identified as probable, possible or confirmed human carcinogen by IAROSHA No component of this product present at levels greater than or equal to			No data available		Remarks
					IARC
	ial to 0.1% is	ter than or equal to			OSHA
NTP No component of this product present at levels greater than or equal to	al to 0.1% is	ter than or equal to	this product present at levels great	No component	NTP





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	identified	as a kn	own or anticipated carcinogen by N	TP.
Repro	oductive toxicity			
Produ				
Effect	s on fertility	:	Remarks: No data available	
	s on foetal opment	:	Remarks: No data available	
<u>Com</u>	oonents:			
			ion products with 2,4,4-trimethyl	pentene:
	oductive toxicity -	:		
, 10000			Some evidence of adverse effects fertility, based on animal experime	
Repe	ated dose toxicity			
Produ	uct:			
Rema	arks	:	This information is not available.	
Aspir	ation toxicity			
Produ	uct:			
This i	nformation is not ava	ailable.		
Furth	er information			
Produ	uct:			
Rema	urks	:	Information given is based on data the toxicology of similar products.	a on the components and
CTION	12. ECOLOGICAL	INFORI	MATION	
Ecoto	oxicity			
Drad	ict.			
<u>Prod</u> u				

Toxicity to daphnia and other : aquatic invertebrates Remarks: No data available





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Toxici plants	ty to algae/aquatic	:	Remarks: No data available	
Toxici	ty to microorganisms	:	Remarks: No data available	
Comp	oonents:			
Benze	enamine, N-phenyl-, re	eacti	on products with 2,4,4-trimethyl	pentene:
Toxici	ty to fish	:	LC50 (Danio rerio (zebra fish)): > Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 20	-
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water fle Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 20	
Toxici plants	ty to algae/aquatic	:	EC50 (Desmodesmus subspicatu Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 20	
Persi	stence and degradabi	lity		
Produ	uct:			
	gradability	:	Remarks: No data available	
	co-chemical /ability	:	Remarks: No data available	
Comp	oonents:			
Benze	enamine, N-phenyl-, re	eacti	on products with 2,4,4-trimethyl	pentene:
	gradability	:	aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 1 % Exposure time: 28 d Method: OECD Test Guideline 30 GLP: yes	





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Bioad	cumulative potential			
Produ	uct:			
Bioac	cumulation	:	Remarks: This mixture contains no sube persistent, bioaccumulating and to This mixture contains no substance c persistent and very bioaccumulating (oxic (PBT). onsidered to be very
<u>Com</u>	oonents:			
Benz	enamine, N-phenyl-, re	eacti	ion products with 2,4,4-trimethylpen	tene:
	ion coefficient: n- ol/water	:	log Pow: > 5	
Mobi	lity in soil			
Produ	uct:			
Mobil	ity	:	Remarks: No data available	
	bution among onmental compartments	:	Remarks: No data available	
Othe	r adverse effects			
Prod	uct:			
Ozon	e-Depletion Potential	:	Regulation: 40 CFR Protection of Env Protection of Stratospheric Ozone - C Substances Remarks: This product neither contain manufactured with a Class I or Class U.S. Clean Air Act Section 602 (40 Cl B).	CAA Section 602 Class I ns, nor was II ODS as defined by the
	onal ecological nation	:	No information on ecology is available	е.

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





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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

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

SARA 302 Extremely	v Hazardous	Substances	Threshold	Planning	Quantity
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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.





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TSCA list

The following substance(s) is/are subject to a Significant New Use Rule: 4-nonylphenol, branched 84852-15-3

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

SECTION 16. OTHER INFORMATION

Further information

Full text of other abbreviations

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

Revision Date

: 12/19/2022





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