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SECTION	1. IDENTIFICATION		
Produ	uct name	: SYNGEAR PG-460F	
Articl	e-No.	: 340096	
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 onsible for the SDS	: mcm@us.kluber.com Material Compliance Managem	ent
Emer numb	rgency telephone per	: +1-517-545-7070 NCEC	
	mmended use of the	e chemical and restrictions on use : Lubricating oil	
Restr	rictions on use	: Restricted to professional users	S.

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						

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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	e of skin contact	:	Remove contaminated clothing. If irritation medical attention. In case of contact, immediately flush skin Wash clothing before reuse. Thoroughly clean shoes before reuse.	
	In case	e of eye contact	:	Rinse immediately with plenty of water, a for at least 10 minutes. If eye irritation persists, consult a special	
If swallowed		:	Move the victim to fresh air. If unconscious, place in recovery position advice. Keep respiratory tract clear. Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unco		
		mportant symptoms fects, both acute and d	:	No information available. None known.	
	Notes	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 regack. 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	
Re	emarks	:	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 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	Flash 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	Vapour	pressure	:	< 0.001 hPa (68 °F / 20 °C)	
F	Relative	e vapour density	:	No data available	
F	Relative	e density	:	1.048 (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	; ;	No data available	
	Partitior	n coefficient: n- /water	:	No data available	
A	Auto-igi	nition temperature	:	No data available	
[Decom	position temperature	:	No data available	
١	Viscosit Visc	ty osity, dynamic	:	No data available	
	Visc	osity, kinematic	:	463 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 ANI	D REAC	ΤΙVΙΤΥ	
Read	tivity	:	No hazards to be specially mention	oned.

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	act	ion products with 2,4,4-trimethylpentene:
Species Assessment	:	Rabbit No skin irritation
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Metho Result		: OECD Test G : No skin irritatio		
Seriou	ıs eye damage/eye	irritation		
<u>Produ</u>	<u>ct:</u>			
Remai	rks	: This information	on is not available.	
<u>Comp</u>	onents:			
Benze	namine, N-phenyl	, reaction products w	vith 2,4,4-trimethyl	pentene:
Specie		: Rabbit		
Result		: No eye irritatio		
Asses		: No eye irritatio		
Metho	a	: OECD Test G	uideline 405	
Respi	ratory or skin sens	itisation		
<u>Produ</u>	<u>ct:</u>			
Remai	rks	: This information	on is not available.	
<u>Comp</u>	onents:			
Benze	namine, N-phenyl	, reaction products w	vith 2,4,4-trimethylu	pentene:
Specie		: Guinea pig		
Asses			sensitisation on lab	oratory animals.
Metho		: OECD Test G		
Result		: Did not cause	sensitisation on lab	oratory animals.
Germ	cell mutagenicity			
<u>Produ</u>	<u>ct:</u>			
Genote	oxicity in vitro	: Remarks: No	data available	
Genote	oxicity in vivo	: Remarks: No	data available	
Carcir	nogenicity			
<u>Produ</u>	<u>ct:</u>			
Remai	rks	: No data availa	ble	
IARC		nent of this product pro s probable, possible c		er than or equal to 0.1% is carcinogen by IARC.
OSHA	•	nent of this product pro s list of regulated carci		er than or equal to 0.1% is
NTP	No compo	nent of this product pro	esent at levels great	er than or equal to 0.1% is





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	identified	as a known oi	r anticipated carcinogen by I	NTP.
Repro	oductive toxicity			
Prod	uct:			
Effect	ts on fertility	: Rem	arks: No data available	
	ts on foetal opment	: Rem	arks: No data available	
<u>Com</u>	ponents:			
Benz	enamine, N-phenyl	, reaction pr	oducts with 2,4,4-trimethy	Ipentene:
	oductive toxicity -	: - Fer	tility -	
Asses	ssment		e evidence of adverse effect ty, based on animal experim	
Repe	ated dose toxicity			
Prod	uct:			
Rema	arks	: This	information is not available.	
Aspir	ration toxicity			
Prod	uct:			
This i	nformation is not ava	ilable.		
Furth	er information			
Prod	uct:			
Rema	arks		mation given is based on da oxicology of similar products	
CTION	12. ECOLOGICAL	NFORMATIO	N	
Ecoto	oxicity			
Produ	uct:			
	ity to fish			

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	
<u>Comp</u>	oonents:			
Benze	enamine, N-phenyl-, re	eacti	on products with 2,4,4-trimethy	Ipentene:
	ty to fish	:	LC50 (Danio rerio (zebra fish)): > Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 20	100 mg/l
	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:			
Biode	gradability	:	Remarks: No data available	
	co-chemical /ability	:	Remarks: No data available	
<u>Comp</u>	oonents:			
Benze	enamine, N-phenyl-, re	eacti	on products with 2,4,4-trimethy	lpentene:
Biode	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	ccumulative potential			
Produ	uct:			
Bioac	cumulation	:	Remarks: This mixture contains no sub be persistent, bioaccumulating and tox This mixture contains no substance co persistent and very bioaccumulating (v	ic (PBT). nsidered to be very
<u>Com</u>	ponents:			
Benz	enamine, N-phenyl-, re	eacti	ion products with 2,4,4-trimethylpente	ene:
	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 Envir Protection of Stratospheric Ozone - CA Substances Remarks: This product neither contains manufactured with a Class I or Class II U.S. Clean Air Act Section 602 (40 CF B).	AA Section 602 Class I s, nor was I ODS as defined by the
	ional ecological nation	:	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





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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 Su	bstances Threshol	d Planning Quantity
	y 1102010005 00		a rianning daanary

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

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