

SHIGE	AN F G-220			
Version 2.0	Revision Date: 2022-08-04		e of last issue: 2021-10-18 e of first issue: 2021-10-18	Print Date: 2022-08-05
SECTION	1. IDENTIFICATION			
Prod	luct name	:	SYNGEAR PG-220	
Artic	le-No.	:	340164	
Othe	er means of identification	:	No data available	
Man	ufacturer or supplier's	deta	ils	
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 Management	
Eme ber	rgency telephone num-	:	+1-517-545-7070 NCEC	
Reco	ommended use of the o	chen	nical and restrictions on use	
Reco	ommended use	:	Lubricating oil	
Rest	rictions on use	:	Restricted to professional users.	

# **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the Hazardous Products Regulations				
Reproductive toxicity	: Category 2			
GHS label elements				
Hazard pictograms				
Signal word	: Warning			





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Hazard	statements	: Suspected of damaging fertility	ν.
Precautionary statements		understood.	ore use. recautions have been read and tive clothing/ eye protection/ fac
		Response:	
		IF exposed or concerned: Get	medical advice/ attention.
		<b>Storage:</b> Store locked up.	
		Disposal:	
		Dispose of contents/ container plant.	to an approved waste disposal

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Chemical nature : polyalkylene glycol oil

## Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
ucts with 2,4,4- trimethylpentene	Benzenamine, N-phenyl-, reac- tion products with 2,4,4- trimethylpen- tene	68411-46-1	Trade secret** (>= 0.1 - < 1 *)

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

\*\* See Section 15 for HMIRA information.

## **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





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		advice. Keep respirato If breathing is tion.		minister artificial respira-
In ca	se of skin contact	ical attention. In case of con Wash clothing	-	ation develops, get med- skin with plenty of water.
In ca	se of eye contact	for at least 10		er, also under the eyelids, cialist.
If swallowed		advice. Keep respirato Do NOT induc Rinse mouth v	s, place in recovery posi ory tract clear. ce vomiting.	
	t important symptoms effects, both acute and yed	: No information None known.	ו available.	
Note	s to physician	: No information	n 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. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
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.





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#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec- : tive equipment and emer- gency procedures	Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Refer to protective measures listed in sections 7 and 8.
Environmental precautions :	Do not allow contact with soil, surface or ground water. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for : containment and cleaning up	Contain spillage, and then collect with non-combustible ab- sorbent material, (e.g. sand, earth, diatomaceous earth, ver- miculite) and place in container for disposal according to local / national regulations (see section 13).

## 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 ap- plication 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





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			appropriate exhaust).		
Pers	sonal protective equip	ment			
Res	piratory protection	:	Not required; except in case of aerosol formation.		
F	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 amongst other things on the mater type of glove and therefore has to case.	ial, the thickness and the	
Eye	protection	:	Safety glasses with side-shields		
Skin and body protection		:	Choose body protection in relation tration and amount of dangerous s cific work-place.		
Prote	ective measures	:	The type of protective equipment n to the concentration and amount of at the specific workplace.		
Hygiene measures		:	Wash face, hands and any expose handling.	ed skin thoroughly after	

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid	
Colour	: colourle	ess
Odour	: charac	teristic
Odour Threshold	: No data	a available
рН	: Not app	plicable
Melting point/range	: No data	a available





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Boiling point/boiling range	: No data available	
Flash point	: 266 °C	
	Method: ASTM D 92	
Evaporation rate	: No data available	
Flammability (solid, gas)	: Not applicable	
Self-ignition	: No data available	
Upper explosion limit / Uppe flammability limit	er : No data available	
Lower explosion limit / Lowe flammability limit	er : No data available	
Vapour pressure	: < 0.001 hPa (20 °C)	
Relative vapour density	: No data available	
Relative density	: 1.041 (20 °C) Reference substance: Water The value is calculated	
Bulk density	: No data available	
Solubility(ies) Water solubility	: insoluble	
Solubility in other solvent	s : No data available	
Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: 231 mm2/s ( 40 °C)	
Explosive properties	: Not explosive	
Oxidizing properties	: No data available	
Sublimation point	: No data available	





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# 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.
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

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D	ro	А		nt	
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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.
<u>Components:</u>	
Benzenamine, N-phenyl-, reac	tion 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.
Components:	
Benzenamine, N-phenyl-, reac	tion products with 2,4,4-trimethylpentene:
Species :	Rabbit
Assessment :	No skin irritation



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Metho Result		: OECD Test Guideline 404 : No skin irritation	
Seriou	ıs eye damage/eye	irritation	
Produ	ct.		
Rema		: This information is not availab	ble.
<u>Comp</u>	onents:		
Benze	namine, N-phenyl-	reaction products with 2,4,4-trime	thylpentene:
Specie		: Rabbit	
Result		: No eye irritation	
Asses		: No eye irritation	
Metho	d	: OECD Test Guideline 405	
Respi	ratory or skin sens	tisation	
<u>Produ</u>	ct:		
Rema	rks	: This information is not availab	ble.
<u>Comp</u>	onents:		
Benze	enamine, N-phenyl-	reaction products with 2,4,4-trime	thylpentene:
Specie		: Guinea pig	
Asses		: Did not cause sensitisation or	n laboratory animals.
Metho		: OECD Test Guideline 406	
Result		: Did not cause sensitisation or	n laboratory animals.
Germ	cell mutagenicity		
<u>Produ</u>	<u>ct:</u>		
Genot	oxicity in vitro	: Remarks: No data available	
Genot	oxicity in vivo	: Remarks: No data available	
Carcir	nogenicity		
<u>Produ</u>	ct:		
Rema	rks	: No data available	
Repro	ductive toxicity		
	ot.		
Produ	<u>ci.</u>		
	s on fertility	: Remarks: No data available	





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Com	iponents:			
Benz	zenamine, N-phenyl-,	react	ion products with 2,4,4-trimethylpe	entene:
•	oductive toxicity - As-	:	- Fertility -	
sess	ment		Some evidence of adverse effects of fertility, based on animal experiment	
Repe	eated dose toxicity			
Proc	luct:			
Rem	arks	:	This information is not available.	
Aspi	ration toxicity			
Prod	luct:			
This	information is not avail	able.		
Furt	her information			
Prod	luct:			
Rem	arks	:	Information given is based on data the toxicology of similar products.	on the components and

#### **SECTION 12. ECOLOGICAL INFORMATION**

# Ecotoxicity

<u>Product:</u> Toxicity to fish	: Remarks: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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-, reaction products with 2,4,4-trimethylpentene:Toxicity to fish:LC50 (Danio rerio (zebra fish)): > 100 mg/l





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			Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203	
	ty to daphnia and other ic invertebrates	• :	EC50 (Daphnia magna (Water flea)) Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	): 51 mg/l
Toxici plants	ty to algae/aquatic	:	EC50 (Desmodesmus subspicatus ( Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201	′green algae)): > 100 mg/
Persi	stence and degradabi	lity		
<u>Produ</u> Biode	<u>uct:</u> gradability	:	Remarks: No data available	
Physio ity	co-chemical removabil-	:	Remarks: No data available	
<u>Comp</u>	oonents:			
Benze	enamine, N-phenyl-, r	eacti	on products with 2,4,4-trimethylpe	ntene:
Biode	gradability	:	aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 1 % Exposure time: 28 d Method: OECD Test Guideline 301E GLP: yes	3
Bioac	cumulative potential			
<u>Produ</u> Bioac	<u>uct:</u> cumulation	:	Remarks: This mixture contains no s be persistent, bioaccumulating and t This mixture contains no substance persistent and very bioaccumulating	toxic (PBT). considered to be very
<u>Com</u> r	oonents:			





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Mobi	lity in soil			
Prod				
Mobil	lity	:	Remarks: No data available	
	bution among environ- al compartments	:	Remarks: No data available	
Othe	r adverse effects			
Prod	uct:			
Additi matio	ional ecological infor- n	:	Harmful to aquatic life with long la	sting effects.

# SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Do not dispose of with domestic refuse.</li> <li>Dispose of as hazardous waste in compliance with local and national regulations.</li> </ul>
Contaminated packaging	<ul> <li>Packaging that is not properly emptied must be disposed of as the unused product.</li> <li>Dispose of waste product or used containers according to local regulations.</li> </ul>

# **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





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#### SECTION 15. REGULATORY INFORMATION

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**NPRI Components** 

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

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 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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