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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier		
Product name	:	PGS-100
Article-No.	:	340101
1.2 Relevant identified uses	of the s	ubstance or mixture and uses advised against
Use of the Substance/Mixture	:	Lubricating oil
Recommended restriction on use	s :	Restricted to professional users.
1.3 Details of the supplier of	the safe	ety data sheet
Company	:	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
E-mail address of person responsible for the SDS		mcm@us.kluber.com Material Compliance Management
National contact	:	
1.4 Emergency telephone nu	mber	
Emergency telephone number	:	+49 89 7876 700 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.



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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.

Additional Labelling

EUH210 Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : polyalkylene glycol oil

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	specific concentration limit M-Factor Notes Acute toxicity estimate	Concentration (% w/w)
Benzenamine, N- phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1 270-128-1	Repr.2; H361f Aquatic Chronic3; H412		>= 0.25 - < 1

For explanation of abbreviations see section 16.

:

SECTION 4: First aid measures

4.1 Description of 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 advice. Keep respiratory tract clear. If breathing is irregular or stopper respiration.	
In ca	se of skin contact	:	Take off all contaminated clothin Get medical attention immediate persists. Wash clothing before reuse. Thoroughly clean shoes before to Wash off immediately with plent	ly if irritation develops and reuse.
In ca	se of eye contact	:	Rinse immediately with plenty of for at least 10 minutes. If eye irritation persists, consult a	
lf swa	allowed	:	Move the victim to fresh air. If unconscious, place in recovery advice. Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water. Never give anything by mouth to	
4.2 Most i	important symptoms a	nd e	ffects, both acute and delayed	
Symp	otoms	:	Inhalation may provoke the follo Headache Nausea	wing symptoms:
4.3 Indica	ation of any immediate	med	lical attention and special treat	ment needed
Treat	tment	:	Treat symptomatically.	
SECTION	N 5: Firefighting mea	sur	es	
5.1 Exting	guishing media			
-	ble extinguishing media	:	Use water spray, alcohol-resista carbon dioxide.	nt foam, dry chemical or
Unsu medi	iitable extinguishing a	:	High volume water jet	

5.2 Special hazards arising from the substance or mixture

Hazardous combustion : Carbon oxides



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products

5.3 Advice for firefighters

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.
Further information	:	Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures					
Personal precautions :	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.				
6.2 Environmental precautions					
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.				
6.3 Methods and material for contai	nment and cleaning up				
Methods for 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).				

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	 Do not use in areas without adequate ventilation. Do not breathe vapours or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
	application area.



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		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 ingest. Do not repack. Do not re-use empty containers. These safety instructions also apply to empty packaging w may still contain product residues. Keep container closed when not in use.	
Hygie	ne measures	: Wash face, hands and any exposed skin thoroughly after handling.	
7.2 Condit	ions for safe storage	, including any incompatibilities	
	rements for storage and containers	: Store in original container. Keep container closed when no use. Keep in a dry, cool and well-ventilated place. Contain which are opened must be carefully resealed and kept up to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.	ers ight
-	ic end use(s) fic use(s)	: Specific instructions for handling, not required.	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
Benzenamine, N- phenyl-, reaction products with 2,4,4- trimethylpentene	Workers	Inhalation	Long-term systemic effects	0.31 mg/m3
	Workers	Skin contact	Long-term systemic effects	0.44 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Benzenamine, N-phenyl-, reaction products with 2,4,4-	Fresh water	0.034 mg/l
trimethylpentene		
	Marine water	0.003 mg/l
	Microbiological Activity in Sewage	10 mg/l
	Treatment Systems	
	Fresh water sediment	0.446 mg/kg



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Marine sediment	0.045 mg/kg
Soil	1.76 mg/kg

8.2 Exposure controls

Engineering measures

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

Personal protective equipment					
Eye/face protection	:	Safety glasses with side-shields			
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.			
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.			
Respiratory protection	:	Not required; except in case of aerosol formation.			
Filter type	:	Filter type A-P			
Protective measures	:	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.			

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: yellow
Odour	: characteristic
Odour Threshold	: No data available
рН	: Not applicable

Not applicable substance/mixture is non-polar/aprotic



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	Meltin	g point/range	:	No data available		
	Boiling	g point/boiling range	:	No data available		
	Flash	point	:	>= 230 °C Method: open cup		
	Evapo	pration rate	:	No data available		
	Flamm	nability (solid, gas)	:	Not applicable		
		explosion limit / Upper ability limit	r :	No data available		
		explosion limit / Lower ability limit	r :	No data available		
	Vapou	ır pressure	:	< 0.001 hPa (20 °C)		
	Relativ	ve vapour density	:	No data available		
	Relativ	ve density	:	1.050 (20 °C) Reference substance: Water The value is calculated		
	Densit	ty .	:	1.05 g/cm3 (20 °C)		
	Bulk d	lensity	:	No data available		
		lity(ies) ater solubility	:	completely soluble		
	So	lubility in other solvents	S :	No data available		
		on coefficient: n- bl/water	:	No data available		
	Auto-i	gnition temperature	:	No data available		
	Decon	nposition temperature	:	No data available		
	Viscos Vis	sity cosity, dynamic	:	No data available		
	Vis	cosity, kinematic	:	100 mm2/s (40 °C)		
	Explos	sive properties	:	Not explosive		
	Oxidiz	ing properties	:	No data available		



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9.2 Other	information					
Subli	mation point	: No data available				
Self-i	gnition	: No data available				
SECTIO	N 10: Stability and	eactivity				
10.1 Read	ctivity					
No h	No hazards to be specially mentioned.					
10.2 Chei	nical stability					
Stabl	e under normal cond	ons.				
10.3 Poss	sibility of hazardous	eactions				
Haza	rdous reactions	: No dangerous reaction known under conditions	of normal use.			
10.4 Con	ditions to avoid					
Conc	litions to avoid	: No conditions to be specially mentioned.				
10.5 Inco	mpatible materials					
Mate	rials to avoid	: No materials to be especially mentioned.				
10 6 Haza	ardous decompositi	products				

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:	
1100000	

Acute oral toxicity	:	Remarks: This information is not available.
Acute inhalation toxicity	:	Remarks: Harmful by inhalation.
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 Method: OECD Test Guideline 401		
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg		



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		Method: OECD Test Guideli	ne 402
			e or mixture has no acute derma
Skin	corrosion/irritation		
Produ	uct:		
Rema		: This information is not availa	able.
<u>Comp</u>	oonents:		
Benze	enamine, N-phenyl-	, reaction products with 2,4,4-trim	ethylpentene:
Speci	es	: Rabbit	
Asses	ssment	: No skin irritation	
Metho		: OECD Test Guideline 404	
Resul	lt	: No skin irritation	
Serio	us eye damage/eye	irritation	
Produ			
Rema	arks	: Irritating to eyes.	
<u>Comp</u>	oonents:		
		, reaction products with 2,4,4-trim	ethylpentene:
Speci		: Rabbit	
	ssment	: No eye irritation	
Metho		: OECD Test Guideline 405	
Resul	lt	: No eye irritation	
Resp	iratory or skin sens	itisation	
<u>Produ</u>			
Rema	arks	: This information is not availa	able.
<u>Comp</u>	oonents:		
Benzo	enamine, N-phenyl-	, reaction products with 2,4,4-trim	ethylpentene:
Speci		: Guinea pig	
	ssment	: Did not cause sensitisation of	on laboratory animals.
Metho		: OECD Test Guideline 406	
Resul	IT	: Did not cause sensitisation of	on laboratory animals.
Germ	cell mutagenicity		
<u>Produ</u>	uct:		



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	Genot	oxicity in vivo	: Remarks: No data available					
	Carci	nogenicity						
	<u>Produ</u> Rema		: No data available					
	Repro	ductive toxicity						
	<u>Produ</u> Effects	ict: s on fertility	: Remarks: No data available					
		s on foetal opment	: Remarks: No data available					
	Comp	onents:						
	Repro	enamine, N-phenyl-, ductive toxicity - sment	 ction products with 2,4,4-trimeth Fertility - Some evidence of adverse effertility, based on animal experi- 	ects on sexual function and				
	STOT - single exposure							
	<u>Produ</u> Rema		: No data available					
	sтот	- repeated exposur						
	<u>Produ</u> Rema		: No data available					
	Repea	ated dose toxicity						
	<u>Produ</u> Rema		: This information is not available	e.				
	Aspira	ation toxicity						
	<u>Produ</u> This ir	i <u>ct:</u> Iformation is not avai	e.					
	Furthe	er information						
	<u>Produ</u> Rema		: Risks of irreversible effects after	er a single exposure.				



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SECTION 12: Ecological information

12.1 Toxicity

Product:		
Toxicity to fish	:	Remarks: Harmful to aquatic organisms.
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

12.2 Persistence and degradability

Product:		
Biodegradability	:	Remarks: No data available
Physico-chemical removability	:	Remarks: No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation	: Remarks: This mixture contains no substance considered to
	be persistent, bioaccumulating and toxic (PBT).
	This mixture contains no substance considered to be very
	persistent and very bioaccumulating (vPvB).

12.4 Mobility in soil

Product:		
Mobility	:	Remarks: No data available
Distribution among environmental compartments	:	Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or
		very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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12.6 Other adverse effects

Product: Endocrine disrupting potential	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Additional ecological information	:	No information on ecology is available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	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.
		Waste codes should be assigned by the user based on the application for which the product was used.
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.
		The following Waste Codes are only suggestions:
Waste Code	:	unused product 13 02 06*, synthetic engine, gear and lubricating oils
		uncleaned packagings 15 01 10*, packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good



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IMD	2	Not regulated as a dangerous good				
IATA	-	Not regulated as a dangerous goodNot regulated as a dangerous good				
	` proper shipping nam					
-						
ADR		: Not regulated as a dangerous good				
RID	_	: Not regulated as a dangerous good				
IMDO		: Not regulated as a dangerous good				
		: Not regulated as a dangerous good				
14.3 Iran	sport hazard class(e)				
ADR		: Not regulated as a dangerous good				
RID		: Not regulated as a dangerous good				
IMDO	G	: Not regulated as a dangerous good				
ΙΑΤΑ	N	: Not regulated as a dangerous good				
14.4 Pacl	king group					
ADR		: Not regulated as a dangerous good				
RID		: Not regulated as a dangerous good				
IMDO	G	: Not regulated as a dangerous good				
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous good				
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous good				
14.5 Envi	ronmental hazards					
ADR		: Not regulated as a dangerous good				
RID		: Not regulated as a dangerous good				
IMD	G	: Not regulated as a dangerous good				
-	14.6 Special precautions for user Not applicable					
		according to IMO instruments				
Rem	•	: Not applicable for product as supplied.				

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

Regulation (EC) No 1005/2009 on substances that : Not applicable deplete the ozone layer (EC 1005/2009)



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	EACH List of substar ex XIV)	nces subject to authorisation :	Not applicable
GB E Inforr	med Consent (PIC) R	azardous chemicals - Prior : egulation	Not applicable
Regu	PIC) Ilation (EU) 2019/114 sives precursors	8 on the marketing and use of :	Not applicable
Volat	ile organic compound		4 November 2010 on industrial ution prevention and control) ds (VOC) content: 42.3 %
15.2 Cher	nical safety assessr	nent	
This	information is not ava	ilable.	

SECTION 16: Other information

Full text of H-Statements		
H361f	:	Suspected of damaging fertility.
H412	:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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 Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50



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- 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet: SVHC - Substance of very high concern: 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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