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SECTION 1. IDENTIFICATION

Product name	:	CO-220FG
Article-No.	:	340367
Other means of identification	:	No data available
Manufacturer or supplier's c	deta	ails
Company 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
E-mail address of person responsible for the SDS	:	mcm@us.kluber.com Material Compliance Management

Emergency telephone number	:	+1-517-545-7070 NCEC

Recommended use of the chemical and restrictions on use

Recommended use	:	Lubricating oil
Restrictions 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	a brand of





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Hazard statements	: Suspected of damaging fertility.	
Precautionary statements	Prevention:	
	Obtain special instructions before u Do not handle until all safety preca understood. Wear protective gloves/ protective o protection.	utions have been read and
	Response:	
	IF exposed or concerned: Get med	ical advice/ attention.
	Storage:	
	Store locked up.	
	Disposal:	
	Dispose of contents/ container to a plant.	n approved waste disposal
Other hazards	F.2	

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : ester oil

Components

	Common Name/Synonym	CAS-No.	Concentration (% w/w)
products with 2,4,4- trimethylpentene	Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpenten e	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





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			medical attention. Keep patient warm and at rest. If breathing is irregular or stopped, adr respiration.	ninister artificial
In ca	se of skin contact	:	Remove contaminated clothing. If irrita medical attention. In case of contact, immediately flush s	
In ca	se of eye contact	:	Rinse immediately with plenty of water for at least 10 minutes. If eye irritation persists, consult a spec	
lf swa	allowed	:	Move the victim to fresh air. Do NOT induce vomiting. Rinse mouth with water.	
	important symptoms effects, both acute and ved	:	No information available. None known.	
Notes	s 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, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Try to prevent the material from entering drains or water





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			courses. Prevent further leakage or spillage if se Local authorities should be advised if s cannot be contained.	
	ethods and materials for ntainment and cleaning up	: ס	Contain spillage, and then collect with absorbent material, (e.g. sand, earth, overmiculite) and place in container for local / national regulations (see section	diatomaceous earth, disposal according to

SECTION 7. HANDLING AND STORAGE

Advice on safe handling :	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.
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 othe appropriate exhaust).	
Personal protective equipme Respiratory protection	ent :	Not required; except in case of aerosol formation.	
Filter type	:	Filter type A-P	
Hand protection Material Break through time Protective index Remarks	::	Nitrile rubber > 10 min Class 1 Wear protective gloves. The break through time depends	





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		amongst other things on the material type of glove and therefore has to be case.		
Eye	protection	: Safety glasses with side-shields		
Skin	and body protection	: Choose body protection in relation to concentration and amount of dangero the specific work-place.		
Protective measures		The type of protective equipment must be selected according to the concentration and amount of the dangerous substant at the specific workplace.		
Hygi	ene measures	: Wash face, hands and any exposed handling.	skin thoroughly after	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	yellow
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	Not applicable
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	>= 250 °C
		Method: ISO 2592, open cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	No data available







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		explosion limit / Upper ability limit	:	No data available	
		explosion limit / Lower ability limit	:	No data available	
V	/apour	pressure	:	< 0.001 hPa (20 °C)	
R	Relativ	e vapour density	:	No data available	
Relative density		:	0.964 (20 °C) Reference substance: Water The value is calculated		
В	Bulk de	ensity	:	No data available	
S		ity(ies) ter solubility	:	insoluble	
	Solu	ubility in other solvents	6 :	No data available	
		n coefficient: n- I/water	:	No data available	
А	Auto-ig	nition temperature	:	No data available	
C	Decom	position temperature	:	No data available	
V	/iscosi/ Visc	ty cosity, dynamic	:	No data available	
	Viso	cosity, kinematic	:	220 mm2/s (40 °C)	
E	Explosi	ive properties	:	Not explosive	
C	Dxidizi	ng properties	:	No data available	
S	Sublim	ation point	:	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.







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Incom	npatible materials	:	No materials to be especially men	tioned.
Haza	rdous decomposition		No decomposition if stored and ap	nlied as directed
produ		•		
CTION	11. TOXICOLOGICA	l info	DRMATION	
Acute	e toxicity			
Prod	uct:			
	e oral toxicity	÷	Remarks: This information is not av	vailable.
	·	-		
Acute	inhalation toxicity	:	Remarks: This information is not av	vailable.
Acute	e dermal toxicity	:	Remarks: This information is not av	/ailable.
Com	ponents:			
Benz	enamine. N-phenvl	reacti	on products with 2,4,4-trimethylp	entene:
	oral toxicity		LD50 (Rat): > 5,000 mg/kg	
710010	, oral toxiony	•	Method: OECD Test Guideline 401	
	1 17 19			
Acute	e dermal toxicity		LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402	
			Assessment: The substance or mix	
			toxicity	
Skin	corrosion/irritation			
Prod				
Rema	arks	:	This information is not available.	
Com	ponents:			
Bonz	onamino N-nhonyl-	roacti	on products with 2,4,4-trimethylp	ontono:
	unannnu, N=µΠ⊂ΠγI=,	reacti	Rabbit	
Sneci				
Speci Asses		:		
•	ies ssment	:	No skin irritation OECD Test Guideline 404	
Asses	ies ssment od		No skin irritation	
Asses Metho Resu	ies ssment od lt	irritatio	No skin irritation OECD Test Guideline 404 No skin irritation	
Asses Metho Resu Serio	ies ssment od It ous eye damage/eye	irritatio	No skin irritation OECD Test Guideline 404 No skin irritation	
Asses Metho Resu	ies ssment od It ous eye damage/eye uct:	irritati	No skin irritation OECD Test Guideline 404 No skin irritation	





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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:

Guinea pig
Did not cause sensitisation on laboratory animals.
OECD Test Guideline 406
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

Remarks : No data available

Reproductive toxicity

Product: Effects on fertility	:	Remarks: No data available
Effects on foetal development	:	Remarks: No data available

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:			
Reproductive toxicity -	:	- Fertility -	
Assessment		Some evidence of adverse effects on sexual function and	



fertility, based on animal experiments.



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Dono	ated dags to visity			
кере	ated dose toxicity			
Prod	uct:			
Rema		:	This information is not available.	
Aspii	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

Ecotoxicity	,
Looloxiony	

_	-	
Ρ	roduc	t:

ta available
ĺ

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
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Components:

Benzenamine, N-phenyl-, reaction 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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		24		
			Method: OECD Test Guideline 2	202
Toxic plants	tity to algae/aquatic s	:	EC50 (Desmodesmus subspica Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 2	
Persi	istence and degrada	bility		
Prod	uct:			
Biode	egradability	:	Remarks: No data available	
	ico-chemical vability	:	Remarks: No data available	
<u>Com</u>	ponents:			
Benz	enamine, N-phenyl-	, react	ion products with 2,4,4-trimethy	ylpentene:
Biode	egradability	:	aerobic Inoculum: activated sludge Result: Not rapidly biodegradab Biodegradation: 1 % Exposure time: 28 d Method: OECD Test Guideline 3 GLP: yes	
Bioa	ccumulative potentia	al		
<u>Prod</u>	uct:			
	ccumulation	:	Remarks: This mixture contains be persistent, bioaccumulating a This mixture contains no substa persistent and very bioaccumula	and toxic (PBT). Ince considered to be very
<u>Com</u>	ponents:			
Benz	enamine, N-phenyl-	, react	ion products with 2,4,4-trimeth	ylpentene:
	ion coefficient: n- nol/water	:	log Pow: > 5	
Mobi	lity in soil			
<u>Prod</u>	uct:			
Mobil	lity	:	Remarks: No data available	
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	ribution among ronmental compartmen	: Remarks: No data available ts	
Oth	er adverse effects		
Res	<u>duct:</u> ults of PBT and vPvB essment	: This mixture contains no substar persistent, bioaccumulating and contains no substance considere very bioaccumulating (vPvB).	toxic (PBT). This mixture
	itional ecological mation	: No information on ecology is ava	ailable.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil.
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

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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Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

NPRI Components

: 4-nonylphenol, branched

Canadian lists

No substances are subject to a Significant New Activity Notification.

No substances are subject to a Significant New Activity Notification.

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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