

FG Elite-46 Version Date of last issue: -Print Date: Revision Date: 02/24/2023 02/23/2023 Date of first issue: 02/23/2023 1.0 **SECTION 1. IDENTIFICATION** : FG Elite-46 Product name Article-No. : 340328 Manufacturer or supplier's details Company name of supplier Klüber Lubrication NA LP 2 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 : mcm@us.kluber.com responsible for the SDS Material Compliance Management Emergency telephone : +1-517-545-7070 NCEC number 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 accor 1910.1200)	dar	nce with the OSHA Hazard Communication Standard (29 CFR
Reproductive toxicity	:	Category 2
GHS label elements Hazard pictograms	:	
Signal word	:	Warning



SAFETY DATA SHEET - US



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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Chemical nature : Synthetic hydrocarbon 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						

actual 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 ca	se of skin contact	 Take off all contaminated cloth Get medical attention immedia persists. Wash clothing before reuse. Thoroughly clean shoes befor Wash off immediately with ple 	ately if irritation develops and e reuse.
In ca	se of eye contact	: Rinse immediately with plenty for at least 10 minutes. If eye irritation persists, consu	
lf sw	allowed	 Move the victim to fresh air. If unconscious, place in recover advice. Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water. Never give anything by mouth 	
	t important symptoms effects, both acute and yed	: No information available. None known.	
Note	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,	:	Evacuate personnel to safe areas.
protective equipment and		Use personal protective equipment.





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eme	rgency procedures	Ensure adequate ventilation. Do not breathe vapours or spra Refer to protective measures lis	
Envi	ronmental precautions	 Try to prevent the material from courses. Prevent further leakage or spilla Local authorities should be adv cannot be contained. 	age if safe to do so.
	nods and materials for ainment and cleaning up	: Contain spillage, and then colle absorbent material, (e.g. sand, vermiculite) and place in contain local / national regulations (see	earth, diatomaceous earth, ner for disposal according to

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	Do not breathe vapours or spray 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).





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Personal protective equipment

Respiratory protection	:	Not required; except in case of aerosol formation.
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 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.
Eye protection	:	Safety glasses with side-shields
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.
Protective measures	:	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures	:	Wash face, hands and any exposed skin thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	yellow
Odour	:	mild
Odour Threshold	:	No data available
рН	:	Not applicable
Melting point/range	:	No data available





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Boiling point	t/boiling range			
		:	> 599 °F / > 315 °C	
Flash point	Flash point		>= 446 °F / 230 °C	
Evaporation	rate	:	No data available	
Flammability	y (solid, gas)	:	Not applicable	
Self-ignition		:	No data available	
Upper explo flammability	sion limit / Upper limit	:	No data available	
Lower explo flammability	sion limit / Lower limit	:	No data available	
Vapour pres	sure	:	< 0.1 hPa (68 °F / 20 °C)	
Relative vap	oour density	:	No data available	
Relative der	nsity	:	0.846 (68 °F / 20 °C) Reference substance: Water The value is calculated	
Bulk density	,	:	No data available	
Solubility(ies Water so		:	insoluble	
Solubility	in other solvents	; ;	No data available	
Partition coe octanol/wate		:	No data available	
Auto-ignitior	n temperature	:	No data available	
Decomposit	ion temperature	:	No data available	
Viscosity Viscosity	, dynamic	:	No data available	
Viscosity	, kinematic	:	46 mm2/s (104 °F / 40 °C)	
Explosive p	operties	:	Not explosive	
Oxidizing pr	operties	:	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 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.
Components:		
Benzenamine, N-phenyl-, r	eact	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	eact	ion products with 2,4,4-trimethylpentene:
Species Assessment Method Result	-	Rabbit No skin irritation OECD Test Guideline 404 No skin irritation





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Serio	us eye damage/eye	irritation	
Produ			
Rema	arks	: This information is not a	available.
<u>Com</u>	oonents:		
Benz	enamine, N-phenyl	reaction products with 2,4,4-	trimethylpentene:
Speci		: Rabbit	
Resul		: No eye irritation	
	ssment	: No eye irritation	0E
Metho	Da	: OECD Test Guideline 4	-05
Resp	iratory or skin sens	tisation	
Produ			
Rema	arks	: This information is not a	available.
Com	oonents:		
Benz	enamine, N-phenyl	reaction products with 2,4,4-	trimethylpentene:
Speci	es	: Guinea pig	
Asses	ssment		tion on laboratory animals.
Metho		: OECD Test Guideline 4	
Resul	t	: Did not cause sensitisat	tion on laboratory animals.
Germ	cell mutagenicity		
<u>Produ</u>	uct:		
Geno	toxicity in vitro	: Remarks: No data avail	able
Geno	toxicity in vivo	: Remarks: No data avail	able
Carci	nogenicity		
Produ	uct:		
Rema	arks	: No data available	
IARC			evels greater than or equal to 0.1% ed human carcinogen by IARC.
IARC OSH/		ant of this product process at t	$r_{\rm constar}$ than ar equal to 0.40^{\prime}
038/		list of regulated carcinogens.	evels greater than or equal to 0.1%
NTP	NI	and of this was durat was a set of la	evels greater than or equal to 0.1%





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F	Repro	ductive toxicity				
F	Produ	ct:				
		on fertility	:	Remarks: No data available		
	Effects on foetal development		:	Remarks: No data available		
<u>c</u>	Comp	onents:				
E	Benze	namine, N-phenyl-,	reacti	on products with 2,4,4-trimethy	Ipentene:	
		ductive toxicity -	:	- Fertility -		
Α	Assessment			Some evidence of adverse effects on sexual function and fertility, based on animal experiments.		
F	Repea	ted dose toxicity				
E	Produ	<u>ct:</u>				
F	Remar	ks	:	This information is not available.		
A	Aspira	tion toxicity				
F	Produ	<u>ct:</u>				
Т	This in	formation is not avail	lable.			
F	Furthe	er information				
<u>F</u>	Produ	<u>ct:</u>				
F	Remar	ks	:	Information given is based on da the toxicology of similar products	•	

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
<u>Product:</u> Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available





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Bioaccumulative poten

Product:

Bioaccumulation

: Remarks: This mixture contains no substance considered to





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ersion 0	Revision Date: 02/23/2023		e of last issue: - e of first issue: 02/23/2023	Print Date: 02/24/2023
			be persistent, bioaccumulating and toxic This mixture contains no substance cons persistent and very bioaccumulating (vP	sidered to be very
<u>Comp</u>	oonents:			
Benze	enamine, N-phenyl-, re	eacti	ion products with 2,4,4-trimethylpenten	ie:
	on coefficient: n- bl/water	:	log Pow: > 5	
Mobil	ity in soil			
Produ	<u>ict:</u>			
Mobili	ty	:	Remarks: No data available	
	oution among nmental compartments	:	Remarks: No data available	
Other	adverse effects			
Produ	ict:			
Ozone	e-Depletion Potential	:	Regulation: 40 CFR Protection of Enviro Protection of Stratospheric Ozone - CAA Substances Remarks: This product neither contains, manufactured with a Class I or Class II C U.S. Clean Air Act Section 602 (40 CFR B).	Section 602 Class I nor was DDS as defined by the
Additio inform	onal ecological ation	:	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 the unused product. Dispose of waste product or used containers according to local regulations.





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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 Hazardous Substances Threshold Planning Quantity

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.

TSCA list

No substances are subject to a Significant New Use Rule.

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





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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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