

Vers 2.0	-	Revision Date: 01/16/2023		e of last issue: 10/05/2021 e of first issue: 10/05/2021	Print Date: 01/16/2023
SEC	TION 1.	DENTIFICATION			
	Product	name	:	HySyn FGE-32	
	Article-N	0.	:	340433	
	Manufac	turer or supplier's	deta	ils	
	Compan	y 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	
		ddress of person ble for the SDS	:	mcm@us.kluber.com Material Compliance Management	
	Emerger number	ncy telephone	:	+1-517-545-7070 NCEC	
	Recomn	nended use of the	chen	nical and restrictions on use	
	Recomm	ended use	:	Lubricating oil	
	Restrictio	ons on use	:	Restricted to professional users.	

## **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	

# SAFETY DATA SHEET



## HySyn FGE-32

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Haza	rd statements	: Suspected of damaging fertility.			
Precautionary statements		Do not handle until all safety precunderstood.	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face		
		<b>Response:</b> IF exposed or concerned: Get me	dical advice/ attention.		
		Storage: Store locked up.			
		<b>Disposal:</b> Dispose of contents/ container to plant.	an approved waste disposal		
Other	rbozarda				

## Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

- · · · · ·	
Substance / Mixture	•
	•

Mixture

Chemical nature

: Synthetic hydrocarbon oil

#### Components

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						
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

:

#### **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 advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial





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		respiration.		
In ca	se of skin contact	<ul> <li>Take off all contaminated clothing immediately Get medical attention immediately if irritation d persists.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> <li>Wash off immediately with plenty of water.</li> </ul>		
In ca	se of eye contact	<ul> <li>Rinse immediately with plenty of water, also up for at least 10 minutes.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>	nder the eyelids,	
If swallowed		Move the victim to fresh air. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.		
	important symptoms offects, both acute and ed	: 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. 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	SECTION 6. ACCIDENTAL RELEASE MEASURES						
prote	onal precautions, ctive equipment and gency procedures	:	Evacuate personnel to safe areas Use personal protective equipmer Ensure adequate ventilation. Do not breathe vapours or spray r Refer to protective measures liste	nt. nist.			
Envir	onmental precautions	:	Do not allow contact with soil, surf Prevent further leakage or spillage If the product contaminates rivers respective authorities.	e if safe to do so.			
	ods and materials for inment and cleaning u	: p	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	:	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 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.





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## 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 equipme	ent		
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	:	characteristic
Odour Threshold	:	No data available





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рН		:	Not applicable	
Mel	ting point/range	:	No data available	
Boil	ing point/boiling range	:	No data available	
Flas	sh point	:	437 °F / 225 °C	
			Method: ASTM D 92, Cleveland op	ben cup
Eva	poration rate	:	No data available	
Flar	nmability (solid, gas)	:	Not applicable	
Self	-ignition	:	No data available	
	per explosion limit / Upper amability limit	·:	No data available	
	ver explosion limit / Lower amability limit	• :	No data available	
Vap	our pressure	:	< 0.001 hPa (68 °F / 20 °C)	
Rela	ative vapour density	:	No data available	
Rela	ative density	:	0.843 (68 °F / 20 °C) Reference substance: Water The value is calculated	
Bulk	< density	:	No data available	
	ubility(ies) Water solubility	:	insoluble	
S	Solubility in other solvents	s :	No data available	
	tition coefficient: n- anol/water	:	No data available	
Auto	o-ignition temperature	:	No data available	
Dec	composition temperature	:	No data available	
	cosity /iscosity, dynamic	:	No data available	
١	/iscosity, kinematic	:	32 mm2/s (104 °F / 40 °C)	





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Explos	sive properties	Method: ASTM D 445 : Not explosive	
Oxidizing properties Sublimation point		<ul><li>No data available</li><li>No data available</li></ul>	

### 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-,	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
	Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity
Benzenamine, N-phenyl-,	reaction products with 2,4,4-trimethylpentene:
Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401





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Acute	dermal toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guidelin Assessment: The substance toxicity	ne 402 e or mixture has no acute dermal
Skin c	orrosion/irritation		
<u>Produ</u>	ct:		
Remai	rks	: This information is not availa	able.
<u>Comp</u>	onents:		
Benze	enamine, N-phenyl-	, reaction products with 2,4,4-trime	ethylpentene:
Specie		: Rabbit	
Asses		: No skin irritation	
Result		: No skin irritation	
Benze	enamine, N-phenyl-	, reaction products with 2,4,4-trime	ethylpentene:
Specie	es	: Rabbit	
Asses		: No skin irritation	
Metho		: OECD Test Guideline 404	
Result		: No skin irritation	
Seriou	us eye damage/eye	irritation	
<u>Produ</u>	<u>ct:</u>		
Remai	rks	: This information is not availa	able.
<u>Comp</u>	onents:		
Benze	enamine, N-phenyl-	, reaction products with 2,4,4-trime	ethylpentene:
Specie		: Rabbit	
Result		: No eye irritation	
Asses	sment	: No eye irritation	
Benze	enamine, N-phenyl-	, reaction products with 2,4,4-trime	ethylpentene:
Specie		: Rabbit	
Result		: No eye irritation	
Asses: Metho		: No eye irritation : OECD Test Guideline 405	
wetho	u		
	ratory or skin sens	itisation	
Respi			
Respir <u>Produ</u>	<u>ct:</u>		





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<u>Comp</u>	onents:		
Benze	enamine, N-phenyl	-, reaction products with 2,4,4-trimethy	vlpentene:
Specie		: Guinea pig	
Asses		: Does not cause skin sensitisatio	n.
Metho Result		: OECD Test Guideline 406 : Does not cause skin sensitisatio	n
Result			
Benze	enamine, N-phenyl	-, reaction products with 2,4,4-trimethy	ylpentene:
Specie		: Guinea pig	
Asses		: Did not cause sensitisation on la : OECD Test Guideline 406	aboratory animals.
Metho Result		: Did not cause sensitisation on la	aboratory animals
rtooun			
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>	ct:		
Remai	rks	: No data available	
IARC		onent of this product present at levels gre as probable, possible or confirmed huma	
IARC			
OSHA		onent of this product present at levels gre 's list of regulated carcinogens.	ater than or equal to 0.1%
NTP		onent of this product present at levels gre as a known or anticipated carcinogen by	
Repro	ductive toxicity		
<u>Produ</u>	ct:		
Effects	s on fertility	: Remarks: No data available	
	s on foetal opment	: Remarks: No data available	
Comp	onents:		
			•
Benze	mamine, N-phenyl ductive toxicity -	<ul> <li>, reaction products with 2,4,4-trimethy</li> <li>: - Fertility -</li> </ul>	ylpentene:







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		Some evidence of adverse effe fertility, based on animal exper		
	enamine, N-phenyl- oductive toxicity -	•, reaction products with 2,4,4-trimeth : - Fertility -	nylpentene:	
	ssment	Some evidence of adverse effe	Some evidence of adverse effects on sexual function and fertility, based on animal experiments.	
Repe	eated dose toxicity			
<u>Prod</u>	uct:			
Rema	arks	: This information is not available	9.	
Aspi	ration toxicity			
<u>Prod</u> This i	uct: information is not ava	ilable.		
Furth	ner information			
<u>Prod</u> Rema		: Information given is based on o the toxicology of similar produc		

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

Ecotoxicity		
<u>Product:</u> Toxicity to fish	Remarks: Harmful to aquatic organisms, may cause lor adverse effects in the aquatic environment.	ng-term
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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	<u>Comp</u>	onents:			
	Benze	enamine, N-phenyl-, r	eact	ion products with 2,4,4-trimethylpenten	e:
	Toxicit	ty to fish	:	LC50 (Danio rerio (zebra fish)): > 100 mg Exposure time: 96 h Method: OECD Test Guideline 203	ŋ/I
		ty to daphnia and other c invertebrates	r :	EC50 (Daphnia magna (Water flea)): 51 Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	mg/l
	Toxicit plants	ty to algae/aquatic	:	EC50 (Desmodesmus subspicatus (gree Exposure time: 72 h Method: OECD Test Guideline 201	n algae)): > 100 mg/l
	aquati	ty to daphnia and other c invertebrates nic toxicity)	r:	EL10 (Daphnia magna (Water flea)): 1.69 Exposure time: 21 d	) mg/l
	Toxicit	ty to microorganisms	:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209	
	Bonzo	namina Nanhanyla r	oact	ion products with 2,4,4-trimethylpenten	<b>.</b> .
		ty to fish	:	LC50 (Danio rerio (zebra fish)): > 100 mg Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203	
		ty to daphnia and other c invertebrates	r:	EC50 (Daphnia magna (Water flea)): 51 Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	mg/l
	Toxicit plants	ty to algae/aquatic	:	EC50 (Desmodesmus subspicatus (gree Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201	n algae)): > 100 mg/l

## Persistence and degradability

### Product:





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Biode	gradability	: Remarks: No data available	
	co-chemical vability	: Remarks: No data available	
Com	oonents:		
	<b>enamine, N-phenyl-</b> gradability	<ul> <li>, reaction products with 2,4,4-trime</li> <li>: aerobic Inoculum: activated sludge Result: Not rapidly biodegrad Biodegradation: 1 % Exposure time: 28 d</li> </ul>	
		Method: OECD Test Guidelin GLP: yes	ne 301B
Benz	enamine, N-phenyl-	, reaction products with 2,4,4-trime	ethylpentene:
Biode	gradability	: aerobic Inoculum: activated sludge Result: Not rapidly biodegrad Biodegradation: 1 % Exposure time: 28 d Method: OECD Test Guidelin	
		GLP: yes	
Bioad	ccumulative potenti	al	
Prod	uct:		
Bioac	cumulation	: Remarks: This mixture contai be persistent, bioaccumulatin This mixture contains no subs persistent and very bioaccum	stance considered to be very
<u>Com</u>	oonents:		
Benz	enamine, N-phenyl-	, reaction products with 2,4,4-trime	ethylpentene:
Bioac	cumulation	: Species: Cyprinus carpio (Ca Bioconcentration factor (BCF Exposure time: 42 d Remarks: Due to the distribut accumulation in organisms is	i): 1,730 tion coefficient n-octanol/water





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Damaa			
		action products with 2,4,4-trimethylpe	ntene:
Partitio	n coefficient: n- l/water	: log Pow: > 5	
Mobilit	y in soil		
Produc	<u>st:</u>		
Mobility	/	: Remarks: No data available	
	ution among Imental compartments	: Remarks: No data available	
Other a	adverse effects		
Produc	<u>ot:</u>		
Ozone	Depletion Potential	<ul> <li>Regulation: 40 CFR Protection of Er Protection of Stratospheric Ozone - Substances Remarks: This product neither conta manufactured with a Class I or Class U.S. Clean Air Act Section 602 (40 0 B).</li> </ul>	CAA Section 602 Class I ains, nor was s II ODS as defined by th
Additio informa	nal ecological ation	: Harmful to aquatic life with long lasti	ing effects.
Compo	onents:		
Benze	namine, N-phenyl-, ro	action products with 2,4,4-trimethylpe	ntene:
Results	s of PBT and vPvB	: Non-classified PBT substance Non-	classified vPvB substanc

#### SECTION 13. DISPOSAL CONSIDERATIONS

assessment

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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