

HYSYN-68

Version 2.0	Revision Date: 07/26/2022	Date of last issue: 09/02/2021 Date of first issue: 09/02/2021	Print Date: 03/23/2023
SECTION	I 1. IDENTIFICATION		
Prod	uct name	: HYSYN-68	
Artic	le-No.	: 340057	
Man	ufacturer or supplier's	details	
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	chemical 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 OSHA Hazard Communication Standard (29 CFR
1910.1200)

Reproductive toxicity	: Category 2	
GHS label elements Hazard pictograms		
Signal word	: Warning	
Hazard statements	: Suspected of damaging fertility.	
		a brand of





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Preca	autionary statements	Prevention: Obtain special instructions before Do not handle until all safety prec understood. Wear protective gloves/ protective protection.	autions have been read and
		Response: IF exposed or concerned: Get me Storage: Store locked up.	edical advice/ attention.
		Dispose of contents/ container to plant.	an approved waste disposal
	r hazards known.		
SECTION	3. COMPOSITION/IN	FORMATION ON INGREDIENTS	
Subs	tance / Mixture	: Mixture	

Chemical nature	: Synthetic hydrocarbon oil
	ester oil

Components

Chemical name	CAS-No.	Concentration (% w/w)	
Benzenamine, N-phenyl-, reaction	68411-46-1	Trade secret (>= 1 - < 5)	
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 continumedical attention. Keep patient warm and at rest. If unconscious, place in recovery position and seek madvice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial tion. 	edical
In case of skin contact	: Remove contaminated clothing. If irritation develops, g	get med-





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		In (Wa	l attention. case of contact, immediately flu ash clothing before reuse. oroughly clean shoes before re	
In ca	se of eye contact	for	nse immediately with plenty of w at least 10 minutes. eye irritation persists, consult a s	-
If swallowed		lf u ad Ke Do Rir	we the victim to fresh air. Inconscious, place in recovery p vice. ep respiratory tract clear. NOT induce vomiting. hse mouth with water. ver give anything by mouth to a	
	t important symptoms effects, both acute and yed		information available. ne known.	
Note	s to physician	: No	information 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 Nitrogen oxides (NOx)
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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-	:	Evacuate personnel to safe areas.
tive equipment and emer-		Use personal protective equipment.
gency procedures		Ensure adequate ventilation.
		Refer to protective measures listed in sections 7 and 8.





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Env	rironmental precautions	:	Do not allow contact with soil, sur Prevent further leakage or spillag If the product contaminates rivers respective authorities.	e if safe to do so.
Methods and materials for containment and cleaning up		: >	Contain spillage, and then collect sorbent material, (e.g. sand, earth miculite) and place in container for / national regulations (see section	n, diatomaceous earth, ver- or disposal according to local

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 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 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).

Personal protective equipment

Respiratory protection : Not required; except in case of aerosol formation.





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Fil	ter type	:	Filter type A-P	
Ma Br	protection aterial eak through time otective index	:	Nitrile rubber > 10 min Class 1	
Re	emarks	:	Wear protective gloves. The break amongst other things on the materi type of glove and therefore has to b case.	al, the thickness and the
Eye p	protection	:	Safety glasses with side-shields	
Skin a	and body protection	:	Choose body protection in relation tration and amount of dangerous su cific work-place.	
Protec	ctive measures	:	The type of protective equipment m to the concentration and amount of at the specific workplace.	
Hygie	ne measures	:	Wash face, hands and any exposed handling.	d skin thoroughly after

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: colourless
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	: >= 446 °F / 230 °C
	Method: open cup





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E	vaporation rate	:	No data available	
F	lammability (solid, gas)	:	Not applicable	
S	elf-ignition	:	No data available	
	lpper explosion limit / Uppe ammability limit	r:	No data available	
	ower explosion limit / Lowe ammability limit	r:	No data available	
V	apour pressure	:	< 0.001 hPa (68 °F / 20 °C)	
R	elative vapour density	:	No data available	
R	elative density	:	0.850 (68 °F / 20 °C) Reference substance: Water The value is calculated	
В	ulk density	:	No data available	
S	olubility(ies) Water solubility	:	insoluble	
	Solubility in other solvent	s :	No data available	
	Partition coefficient: n- octanol/water		No data available	
А	uto-ignition temperature	:	> 725 °F / > 385 °C	
D	ecomposition temperature	:	No data available	
V	iscosity Viscosity, dynamic	:	No data available	
	Viscosity, kinematic	:	32 mm2/s (104 °F / 40 °C)	
E	xplosive properties	:	Not explosive	
С	oxidizing properties	:	No data available	
S	Sublimation point		No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: No hazards to be specially mentioned.





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	Chemi	cal stability	:	Stable under normal conditions.	
	Possib tions	ility of hazardous read	- :	No dangerous reaction known under co	nditions of normal use.
	Conditi	ions to avoid	:	No conditions to be specially mentioned	
	Incomp	patible materials	:	No materials to be especially mentioned	I.
	Hazaro produc	lous decomposition ts	:	No decomposition if stored and applied	as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

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.

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 				
Skin corrosion/irritation					
Product:					
Remarks	: This information is not available.				
Components:					
Benzenamine, N-phenyl-, rea	action products with 2,4,4-trimethylpentene:				

Species	:	Rabbit
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
Result	:	No skin irritation





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Seriou	ıs eye damage/eye	e irritati	on	
Produ	<u>ct:</u>			
Rema	rks	:	This information is not available.	
<u>Comp</u>	onents:			
Benze	namine, N-phenyl	-, react	ion products with 2,4,4-trimethylp	entene:
Specie		:	Rabbit	
Result		:	No eye irritation	
Asses	sment	:	No eye irritation	
Metho	d	:	OECD Test Guideline 405	
Respi	ratory or skin sens	sitisatio	on	
<u>Produ</u>	<u>ct:</u>			
Rema	rks	:	This information is not available.	
<u>Comp</u>	onents:			
Benze	namine, N-phenyl	-, react	ion products with 2,4,4-trimethylp	entene:
Specie		:	Guinea pig	
Asses		:	Did not cause sensitisation on labo	pratory animals.
Metho		:	OECD Test Guideline 406	
Result		:	Did not cause sensitisation on labo	pratory animals.
Germ	cell mutagenicity			
<u>Produ</u>				
Genot	oxicity in vitro	:	Remarks: No data available	
Genot	oxicity in vivo	:	Remarks: No data available	
Carcir	nogenicity			
<u>Produ</u>	<u>ct:</u>			
Rema	rks	:	No data available	
IARC			this product present at levels greater able, possible or confirmed human of	
IARC				
OSHA			this product present at levels greater regulated carcinogens.	er than or equal to 0.1% is
NTP			this product present at levels great	or then or equal to 0.1%





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Repr	oductive toxicity			
Prod	luct:			
Effec	ts on fertility	:	Remarks: No data available	
Effec ment	ts on foetal develop-	:	Remarks: No data available	
<u>Com</u>	ponents:			
Benz	zenamine, N-phenyl-,	react	ion products with 2,4,4-trimethylp	entene:
	Reproductive toxicity - As-	:	- Fertility -	
Sessi	sessment		Some evidence of adverse effects fertility, based on animal experime	
Repe	eated dose toxicity			
Prod	luct:			
Rema	arks	:	This information is not available.	
Aspi	ration toxicity			
Prod	luct:			
This	information is not avai	lable.		
Furth	ner 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





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Toxici	ty to microorganisms	:	Remarks: No data available	
<u>Comp</u>	oonents:			
	enamine, N-phenyl-, ro ty to fish		ion products with 2,4,4-trimethyl LC50 (Danio rerio (zebra fish)): > Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 20	100 mg/l
	ty to daphnia and other ic invertebrates	· :	EC50 (Daphnia magna (Water fle Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 20	
Toxici plants	ty to algae/aquatic	:	EC50 (Desmodesmus subspicatu Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 20	
Persis	stence and degradabi	lity		
<u>Prodι</u> Biode	ıct: gradability	:	Remarks: No data available	
Physic ity	co-chemical removabil-	:	Remarks: No data available	
<u>Comp</u>	oonents:			
	enamine, N-phenyl-, ro gradability	eacti :	ion products with 2,4,4-trimethyl aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 1 % Exposure time: 28 d Method: OECD Test Guideline 30 GLP: yes	
Bioac	cumulative potential			
<u>Produ</u> Bioace	<u>uct:</u> cumulation	:	Remarks: This mixture contains n be persistent, bioaccumulating an This mixture contains no substand	nd toxic (PBT).
			10 / 15	a brand of





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		persistent and very bioaccumulating	ng (vPvB).
oonents:			
enamine, N-phenyl-, r	eacti	on products with 2,4,4-trimethylp	pentene:
on coefficient: n- ol/water	:	log Pow: > 5	
ity in soil			
uct:			
ty	:	Remarks: No data available	
oution among environ- al compartments	:	Remarks: No data available	
adverse effects			
uct:			
e-Depletion Potential	:	Regulation: 40 CFR Protection of tection of Stratospheric Ozone - C Substances Remarks: This product neither cor tured with a Class I or Class II OD Clean Air Act Section 602 (40 CFF	AA Section 602 Class I ntains, nor was manufac- S as defined by the U.S.
onal ecological infor- n	:	Harmful to aquatic life with long la	sting effects.
	Revision Date: 07/26/2022	Revision Date: Date 07/26/2022 Date Donents: Date enamine, N-phenyl-, reaction Concention on coefficient: n- : on coefficient: n- : ol/water : ity in soil : uct: : ty : oution among environ- : adverse effects : uct: : e-Depletion Potential : onal ecological infor- :	Revision Date: Date of last issue: 09/02/2021 07/26/2022 Date of first issue: 09/02/2021 persistent and very bioaccumulation persiste

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.

SECTION 14. TRANSPORT INFORMATION

International Regulations





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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

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307





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This p	1,2-Benzenedica acid, di-C9-11-br alkyl esters, C10 product does not conta	anched	>= 10 - < 20 %
US St	ate Regulations		
Mass	achusetts Right To F	(now	
	Benzenamine, National trimethylpentene	phenyl-, reaction products with 2,4,4-	68411-46-1
Penn	sylvania Right To Kr	low	
		polymer, hydrogenated rboxylic acid, di-C9-11-branched alkyl	68037-01-4 esters, 68515-49-1
Maine	e Chemicals of High	Concern	
	Benzenamine, Netrimethylpentene	phenyl-, reaction products with 2,4,4-	68411-46-1
Verm	ont Chemicals of Hig	gh Concern	
	trimethylpentene	phenyl-, reaction products with 2,4,4-	68411-46-1
	Triphenyl phosph tris(methylphenyl		115-86-6 1330-78-5
Wash	ington Chemicals of	High Concern	
	Benzenamine, Netrimethylpentene	phenyl-, reaction products with 2,4,4-	68411-46-1
	Triphenyl phosph tris(methylphenyl		115-86-6 1330-78-5
New `	York City Hazardous	Substances	
	1,2-Benzenedica C10-rich	rboxylic acid, di-C9-11-branched alkyl	esters, 68515-49-1
	Triphenyl phosph Distillates (petrol	ate eum), hydrotreated middle	115-86-6 64742-46-7
Califo	ornia Pron 65		

California Prop. 65

WARNING: This product can expose you to chemicals including 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, 68515-49-1 C10-rich

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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