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

1.1 Product identifier		
Product name	:	NGL-777
Article-No.	:	340209
1.2 Relevant identified uses of t	he s	ubstance or mixture and uses advised against
Use of the Substance/Mixture	:	Lubricating oil
Recommended restrictions on use	:	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 numb	er	
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.

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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 re If unconscious, place in reco advice. Keep respiratory tract clear. If breathing is irregular or sto respiration.	overy position and seek medical
In ca	se of skin contact	 Take off all contaminated clo Get medical attention immed persists. Wash clothing before reuse. Thoroughly clean shoes before Wash off immediately with p 	diately if irritation develops and ore reuse.
In ca	se of eye contact	: Rinse immediately with plen for at least 10 minutes. If eye irritation persists, cons	ty of water, also under the eyelids, sult a specialist.
If sw	allowed	advice. Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water.	overy position and seek medical th to an unconscious person.
	important symptom ptoms	s and effects, both acute and delay : Inhalation may provoke the f Headache	
		Nausea	

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	:	High volume water jet
		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.



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		Wash hands and face before b handling the product. Do not get in eyes or mouth or Do not get on skin or clothing. Do not ingest. Do not repack. Do not re-use empty containers These safety instructions also a may still contain product residu Keep container closed when no	on skin. s. apply to empty packaging which ies.
Hygie	ene measures	: Wash face, hands and any exp handling.	oosed skin thoroughly after
7.2 Condi	itions for safe storage	e, including any incompatibilities	
	lirements for storage s and containers	: Store in original container. Kee use. Keep in a dry, cool and we which are opened must be care to prevent leakage. Store in ac national regulations. Keep in pr	ell-ventilated place. Containers efully resealed and kept upright cordance with the particular
-	fic end use(s) ific use(s)	: Specific instructions for handlin	ng, 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- trimethylpentene	Fresh water	0.034 mg/l
	Marine water	0.003 mg/l
	Microbiological Activity in Sewage Treatment Systems	10 mg/l
	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	: colourless
Odour	: characteristic
Odour Threshold	: No data available
рН	: Not applicable

: Not applicable substance/mixture is non-polar/aprotic



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Melti	ing point/range	:	No data available	
Boili	ng point/boiling range	:	No data available	
Flas	h point	:	250 °C Method: Cleveland open cup	
Evap	poration rate	:	No data available	
Flam	nmability (solid, gas)	:	Not applicable	
	er explosion limit / Upper mability limit	:	No data available	
	er explosion limit / Lower mability limit	:	No data available	
Vapo	our pressure	:	< 0.1 hPa (20 °C)	
Rela	tive vapour density	:	No data available	
Rela	tive density	:	1.060 (20 °C) Reference substance: Water The value is calculated	
Dens	sity	:	1.06 g/cm3 (20 °C)	
Bulk	density	:	No data available	
	bility(ies) Vater solubility	:	completely soluble	
S	olubility in other solvents	s :	No data available	
	ition coefficient: n- nol/water	:	No data available	
Auto	-ignition temperature	:	No data available	
Deco	omposition temperature	:	No data available	
Visc V	osity ′iscosity, dynamic	:	No data available	
V	iscosity, kinematic	:	ca. 150 mm2/s (40 °C)	
Expl	osive properties	:	Not explosive	
Oxid	lizing properties	:	No data available	



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9 2 Other	information		
• • • • • •	imation point	: No data available	
Self-	ignition	: No data available	
10.1 Read	N 10: Stability and ctivity azards to be specially		
10.2 Che	mical stability		
Stab	le under normal cond	itions.	
10.3 Pos	sibility of hazardous	s reactions	
Haza	ardous reactions	: No dangerous reaction known ur	nder conditions of normal use.
10.4 Con	ditions to avoid		
Cond	ditions to avoid	: No conditions to be specially men	ntioned.

10.5 Incompatible materials

Materials to avoid	:	No materials to be especially mentioned.
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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:

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 Guideline 4 Assessment: The substance or n oxicity	
Skin	corrosion/irritation			
<u>Prod</u> Rema		: '	This information is not available.	
Com	ponents:			
Benz	enamine, N-phenyl-	, reactio	n products with 2,4,4-trimethy	Ipentene:
Spec			Rabbit	•
	ssment		No skin irritation	
Meth			DECD Test Guideline 404	
Resu	It	:	No skin irritation	
Serio	ous eye damage/eye	irritatio	n	
<u>Prod</u>	uct:			
Rema	arks	:	rritating to eyes.	
Com	ponents:			
Benz	enamine, N-phenyl-	, reactio	n products with 2,4,4-trimethy	Ipentene:
Spec			Rabbit	
	ssment		No eye irritation	
Meth			DECD Test Guideline 405	
Resu	It	:	No eye irritation	
Resp	iratory or skin sens	itisation		
<u>Prod</u>	uct:			
Rema	arks	: .	This information is not available.	
Com	ponents:			
Benz	enamine, N-phenyl-	, reactio	n products with 2,4,4-trimethy	Ipentene:
Spec			Guinea pig	
	ssment		Did not cause sensitisation on la	boratory animals.
Meth Resu			DECD Test Guideline 406 Did not cause sensitisation on la	boratory animals.
Germ	n cell mutagenicity			
Prod				
			Remarks: No data available	
Geno	otoxicity in vitro			
Cent				



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Genc	toxicity in vivo	: Remarks:	No data available	
Carc	inogenicity			
<u>Prod</u>	uct:			
Rema		: No data a	vailable	
Repr	oductive toxicity			
Prod	uct:			
	ts on fertility	: Remarks:	No data available	
	ts on foetal opment	: Remarks:	No data available	
Com	ponents:			
Benz	enamine, N-phenyl-	reaction produc	ts with 2,4,4-trimethyl	pentene:
Reproductive toxicity -	-			
Repro	oductive toxicity -	: - Fertility ·		
-	oductive toxicity - ssment	Some evi		s on sexual function and ents.
Asse	-	Some evi	dence of adverse effects	
Asse	ssment Γ - single exposure	Some evi	dence of adverse effects	
Asse STO	ssment Γ - single exposure uct:	Some evi	dence of adverse effects ased on animal experime	
Asse STO Prod Rema	ssment Γ - single exposure uct:	Some evi fertility, ba : No data a	dence of adverse effects ased on animal experime	
Asse STO Prod Rema	ssment Γ - single exposure <u>uct:</u> arks Γ - repeated exposu	Some evi fertility, ba : No data a	dence of adverse effects ased on animal experime	
Asse STOT Prod Rema STOT	ssment Γ - single exposure <u>uct:</u> arks Γ - repeated exposu <u>uct:</u>	Some evi fertility, ba : No data a	dence of adverse effects ased on animal experime vailable	
Asse STOT Prod Rema STOT Prod Rema	ssment Γ - single exposure <u>uct:</u> arks Γ - repeated exposu <u>uct:</u>	Some evi fertility, ba : No data a e	dence of adverse effects ased on animal experime vailable	
Asse STOT Prod Rema STOT Prod Rema	ssment C - single exposure <u>uct:</u> arks C - repeated exposu <u>uct:</u> arks sated dose toxicity <u>uct:</u>	Some evi fertility, ba : No data a e : No data a	dence of adverse effects ased on animal experime vailable	
Asses STOT Prod Rema Rema Repe Prod Rema	ssment C - single exposure <u>uct:</u> arks C - repeated exposu <u>uct:</u> arks sated dose toxicity <u>uct:</u>	Some evi fertility, ba : No data a e : No data a	dence of adverse effects ased on animal experime vailable vailable	
Asse STOT Prod Rema STOT Prod Repe Prod Aspin Prod	ssment F - single exposure <u>uct:</u> arks F - repeated exposu <u>uct:</u> arks ated dose toxicity <u>uct:</u> arks ration toxicity	Some evi fertility, ba : No data a : No data a : This inform	dence of adverse effects ased on animal experime vailable vailable	
Asses STOT Prod Rema STOT Prod Rema Repe Prod Rema Aspin Prod This i	ssment F - single exposure <u>uct:</u> arks F - repeated exposu <u>uct:</u> arks ated dose toxicity <u>uct:</u> arks ration toxicity <u>uct:</u>	Some evi fertility, ba : No data a : No data a : This inform	dence of adverse effects ased on animal experime vailable vailable	



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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	: Remarks: No data available

Distribution antong	•
environmental compartments	

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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IMDO	3	: Not regulated as a dangerous good		
IATA		: Not regulated as a dangerous good		
14.2 UN p	proper shipping nam			
ADR		: Not regulated as a dangerous good		
RID		: Not regulated as a dangerous good		
IMDO	3	: Not regulated as a dangerous good		
ΙΑΤΑ		: Not regulated as a dangerous good		
14.3 Tran	sport hazard class(e	s)		
ADR		: Not regulated as a dangerous good		
RID		: Not regulated as a dangerous good		
IMDO	3	: Not regulated as a dangerous good		
ΙΑΤΑ		: Not regulated as a dangerous good		
14.4 Pack	king group			
ADR		: Not regulated as a dangerous good		
RID		: Not regulated as a dangerous good		
IMDO	6	: 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		
IMDO	3	: Not regulated as a dangerous good		
14.6 Special precautions for user Not applicable				
14.7 Maritime transport in bulk according to IMO instruments				
Rema	arks	: 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

UK REACH List of restrictions (Annex 17)

: Not applicable



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conce	EACH Candidate list ern (SVHC) for Author SVHC)	of substances of very high risation	:	This product does not contain substances of very high concern (UK: The REACH etc. (Amendment) Regulations, Article 57).
Regu Britai	lation (EU) 2019/102	llutants Regulations (retained 1 as amended for Great	:	Not applicable
deple	lation (EC) No 1005/2 te the ozone layer 1005/2009)	2009 on substances that	:	Not applicable
(Anne	EACH List of substan ex XIV) REACH Annex XIV)	ices subject to authorisation	:	Not applicable
	ned Consent (PIC) Re	azardous chemicals - Prior egulation	:	Not applicable
	lation (EU) 2019/1148 sives precursors	3 on the marketing and use of	:	Not applicable
	ol of Major Accident H (COMAH)	Hazards Regulations		Not applicable
Volati	ile organic compound	emissions (integrated	pollu	4 November 2010 on industrial ution prevention and control) ds (VOC) content: 71 %

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

15.2 Chemical safety assessment

This information is not available.



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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 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; 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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safety data sheets and any amendments contained therein to its own customers, employees and other users of the product. We provide no guarantee that safety data sheets received by users from third parties are up-to-date. All information and instructions in this safety data sheet have been compiled to the best of our knowledge and are based on the information available to us on the day of publication. The information provided is intended to describe the product in relation to the required safety measures; it is neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and does not justify any contractual legal relationship. The existence of a safety data sheet for a particular jurisdiction does not necessarily mean that import or use within that jurisdiction is legally permitted. If you have any questions, please contact your responsible sales contact or authorized trading partner.

