

# NGP-320

Version 2.0	Revision Date: 07/28/2022		Print Date: )7/29/2022
SECTION	N 1. IDENTIFICATION		
Prod	luct name	: NGP-320	
Artic	le-No.	: 340291	
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	hemical 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)				
Skin sensitisation	:	Category 1		
Reproductive toxicity	:	Category 2		
GHS label elements Hazard pictograms	:			
Signal word	:	Warning		





## **NGP-320**

/ersion 2.0	Revision Date: 07/28/2022	Date of last issue: 10/18/2021 Date of first issue: 10/18/2021	Print Date: 07/29/2022
Haza	rd statements	: May cause an allergic skin reaction Suspected of damaging fertility.	n.
Preca	autionary statements	<sup>:</sup> Prevention:	
		Obtain special instructions before Avoid breathing vapours. Wear protective gloves/ protective protection.	
		Response:	
		IF exposed or concerned: Get me	dical advice/ attention.
		<b>Storage:</b> Store locked up.	
		Disposal:	
		Dispose of contents/ container to a plant.	an approved waste disposal
Othe	r hazards		

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance /	Mixture	:	Mixture

Chemical nature : Mineral oil.

#### Components

Chemical name	CAS-No.	Concentration (% w/w)	
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Trade secret (>= 80 - <= 100)	
, ,			
Benzenamine, N-phenyl-, reaction	68411-46-1	Trade secret (>= 0.1 - < 1)	
products with 2,4,4-trimethylpentene			
2,5-bis(octyldithio)-1,3,4-thiadiazole	13539-13-4	Trade secret (>= 0.1 - < 1)	
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.





## NGP-320

Revision Date: 07/28/2022	Date of last issue: 10/18/2021 Date of first issue: 10/18/2021	Print Date: 07/29/2022		
	If breathing is irregular or stoppe tion.	ed, administer artificial respira-		
se of skin contact	Wash off immediately with soap Get medical attention immediate persists. Wash clothing before reuse.			
se of eye contact	: Rinse immediately with plenty of for at least 10 minutes. If eye irritation persists, consult a			
illowed	<ul> <li>Move the victim to fresh air.</li> <li>If unconscious, place in recovery advice.</li> <li>Keep respiratory tract clear.</li> <li>Do NOT induce vomiting.</li> <li>Rinse mouth with water.</li> <li>Never give anything by mouth to</li> </ul>			
important symptoms ffects, both acute and ed	: May cause an allergic skin react Allergic appearance	ion.		
to physician	: The first aid procedure should be with the doctor responsible for in			
	07/28/2022 se of skin contact se of eye contact illowed important symptoms ffects, both acute and ed	07/28/2022Date of first issue: 10/18/2021If breathing is irregular or stoppedion.se of skin contact: Take off all contaminated clothin Wash off immediately with soap Get medical attention immediate persists. Wash clothing before reuse. Thoroughly clean shoes before reuse. Thoroughly clean shoes before reuse. Thoroughly clean shoes before reuse. If eye irritation persists, consult a allowedallowed: Rinse immediately with plenty of for at least 10 minutes. If eye irritation persists, consult a dvice. Keep respiratory tract clear. Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to important symptoms ffects, both acute and edimportant symptoms ffects, both acute and ed: May cause an allergic skin react Allergic appearanceis to physician: The first aid procedure should be		

### **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
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, protec- : Evacuate personnel to safe areas.





## **NGP-320**

Version 2.0	Revision Date: 07/28/2022		of last issue: 10/18/2021 of first issue: 10/18/2021	Print Date: 07/29/2022
	equipment and emer- cy procedures		Use personal protective equipmen Ensure adequate ventilation. Do not breathe vapours or spray m Refer to protective measures listed	nist.
Env	ironmental precautions		Try to prevent the material from encourses. Prevent further leakage or spillage Local authorities should be advised cannot be contained.	e if safe to do so.
	hods and materials for tainment and cleaning up	C	Contain spillage, and then collect v sorbent material, (e.g. sand, earth, miculite) and place in container for / national regulations (see section	, diatomaceous earth, ver- r disposal according to local

## SECTION 7. HANDLING AND STORAGE

Advice on safe handling	<ul> <li>Do not breathe vapours or spray mist. Avoid contact with skin and eyes. For personal protection see section 8. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>Wash hands and face before breaks and immediately after handling the product.</li> <li>Do not get in eyes or mouth or on skin.</li> <li>Do not get on skin or clothing.</li> <li>Do not repack.</li> <li>Do not repack.</li> <li>Do not re-use empty containers.</li> <li>These safety instructions also apply to empty packaging which may still contain product residues.</li> <li>Keep container closed when not in use.</li> </ul>
Conditions for safe storage	<ul> <li>Store in original container.</li> <li>Keep container closed when not in use.</li> <li>Keep in a dry, cool and well-ventilated place.</li> <li>Containers which are opened must be carefully resealed and kept upright to prevent leakage.</li> <li>Store in accordance with the particular national regulations.</li> <li>Keep in properly labelled containers.</li> </ul>

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters





## NGP-320

Version	Revision Date:	Date of last issue: 10/18/2021	Print Date:
2.0	07/28/2022	Date of first issue: 10/18/2021	07/29/2022

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Distillates (petroleum), hy- drotreated heavy paraffinic	64742-54-7	TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH (2013-03-01)
		TWA (Mist)	5 mg/m3	OSHA Z-1 (2018-03-15)
		TWA (Mist)	5 mg/m3	OSHA P0 (1989-01-19)
		TWA (Mist)	5 mg/m3	NIOSH REL (2019-10-04)
		ST (Mist)	10 mg/m3	NIOSH REL (2019-10-04)

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.		
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 concen- tration and amount of dangerous substances, and to the spe- cific 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





	1-520				
Vers 2.0	sion	Revision Date: 07/28/2022		of last issue: 10/18/2021 of first issue: 10/18/2021	Print Date: 07/29/2022
	Colour		:	colourless	
	Odour		:	slight	
	Odour	Threshold	:	No data available	
	рН		:	Not applicable substance/mixture is non-soluble (in wat	er)
	Melting	point/range	:	No data available	
	Boiling	point/boiling range	:	No data available	
	Flash p	point	:	> 212 °F / 100 °C	
				Method: open cup	
	Evapor	ration rate	:	No data available	
	Flamm	ability (solid, gas)	:	Not applicable	
	Self-igr	nition	:	No data available	
		explosion limit / Upper ability limit	:	No data available	
		explosion limit / Lower ability limit	:	No data available	
	Vapour	r pressure	:	< 0.001 hPa (68 °F / 20 °C)	
	Relativ	e vapour density	:	No data available	
	Relativ	e density	:	0.872 (68 °F / 20 °C) Reference substance: Water The value is calculated	
	Bulk de	ensity	:	No data available	
	Solubil Wat	ity(ies) ter solubility	:	insoluble	
	Solu	ubility in other solvents	6 :	No data available	
	Partitio octano	n coefficient: n- I/water	:	No data available	





## **NGP-320**

Version 2.0	Revision Date: 07/28/2022		e of last issue: 10/18/2021 e of first issue: 10/18/2021	Print Date: 07/29/2022
Aut	o-ignition temperature	:	No data available	
De	Decomposition temperature		No data available	
	cosity Viscosity, dynamic	:	No data available	
	Viscosity, kinematic	:	320 mm2/s (104 °F / 40 °C)	
Exp	plosive properties	:	Not explosive	
	dizing properties	:	No data available No data available	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity		No hazards to be specially mentioned.
Chemical stability		Stable under normal conditions.
Possibility of hazardous reac- tions	:	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.
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Symptoms: Redness, Local irritation

### Components:

Distillates (petroleum), hydrotreated heavy paraffinic:						
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401				





SP-320	0			
sion	Revision Date: 07/28/2022		e of last issue: 10/18/2021 e of first issue: 10/18/2021	Print Date: 07/29/2022
			GLP: yes	
Acute	inhalation toxicity	:	LC50 (Rat): > 5.53 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 40 Assessment: The substance or m tion toxicity	
Acute	e dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 40	02
Benze	enamine, N-phenyl-	, react	ion products with 2,4,4-trimethyl	pentene:
Acute	oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 40	01
Acute	e dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 40 Assessment: The substance or m toxicity	
	is(octyldithio)-1,3,4-			
Acute	oral toxicity	:	LD50 (Rat): > 5,000 mg/kg	
Acute	inhalation toxicity	:	LC50 (Rat): 3.08 mg/l Exposure time: 4 h Test atmosphere: dust/mist	
Acute	e dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg	
Skin	corrosion/irritation			
<u>Produ</u>	uct:			
Rema	arks	:	This information is not available.	
<u>Comp</u>	oonents:			
Distil	lates (petroleum), h	ydrotr	eated heavy paraffinic:	
Speci		:	Rabbit	
Asses	ssment	:	No skin irritation OECD Test Guideline 404	
Resul		•	No skin irritation	
GLP		:	yes	
Benz	enamine, N-phenyl-	, react	ion products with 2,4,4-trimethyl	pentene:
Speci	es	:	Rabbit	
	ssment	:	No skin irritation	
Metho		:	OECD Test Guideline 404	
Resul	IL	:	No skin irritation	
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### **NGP-320**

Version	Revision Date:	Date of last issue: 10/18/2021	Print Date:
2.0	07/28/2022	Date of first issue: 10/18/2021	07/29/2022

2,5-bis(octyldithio)-1,3,4-thiadiazole:				
Species	:	Rabbit		
Assessment	:	Irritating to skin.		
Result	:	Irritating to skin.		

#### Serious eye damage/eye irritation

#### Product:

Remarks

: This information is not available.

#### Components:

#### Distillates (petroleum), hydrotreated heavy paraffinic:

Species	: Rabbit
Result	: No eye irritation
Assessment	: No eye irritation
Method	: OECD Test Guideline 405
GLP	: yes

#### 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

#### 2,5-bis(octyldithio)-1,3,4-thiadiazole:

Species	:	Rabbit
Result	:	Irritating to eyes.
Assessment	:	Irritating to eyes.

#### Respiratory or skin sensitisation

#### Product:

Remarks

: This information is not available.

#### **Components:**

#### Distillates (petroleum), hydrotreated heavy paraffinic:

Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
GLP	:	yes

### Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species	:	Guinea pig
Assessment	:	Did not cause sensitisation on laboratory animals.





# NGP-320

sion	Revision Date: 07/28/2022	Date of last issue: 10/18/2021 Date of first issue: 10/18/2021	Print Date: 07/29/2022
Methoo Result	1	: OECD Test Guideline 406 : Did not cause sensitisation on la	aboratory animals.
2,5-bis	(octyldithio)-1,3,4-	hiadiazole:	
Test Ty	•	: Buehler Test	
Specie Assess		<ul> <li>Guinea pig</li> <li>The product is a skin sensitiser,</li> </ul>	sub-category 1A
Result		: The product is a skin sensitiser,	
Germ o	cell mutagenicity		
Produc	<u>ct:</u>		
Genoto	oxicity in vitro	: Remarks: No data available	
Genoto	oxicity in vivo	: Remarks: No data available	
Carcin	ogenicity		
Produc	<u>et:</u>		
Remar	ks	: No data available	
Compo	onents:		
Distilla	ites (petroleum), hv	drotreated heavy paraffinic:	
	ogenicity - Assess-		cinogen.
IARC		ent of this product present at levels gress and the set of this product present at levels gressible or confirmed huma	
IARC			
OSHA		ent of this product present at levels gre list of regulated carcinogens.	eater than or equal to 0.1%
NTP		ent of this product present at levels gress a known or anticipated carcinogen by	
Repro	ductive toxicity		
Produce Effects	<u>et:</u> on fertility	: Remarks: No data available	
	on foetal develop-	: Remarks: No data available	

Reproductive toxicity - As- : - Fertility -





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IGP-32	0			
ersion .0	Revision Date: 07/28/2022		e of last issue: 10/18/2021 e of first issue: 10/18/2021	Print Date: 07/29/2022
sessr	nent		No toxicity to reproduction	
	oductive toxicity - As-		on products with 2,4,4-trimethyl - Fertility - Some evidence of adverse effect fertility, based on animal experim	s on sexual function and
STO	Γ - single exposure			
Com	ponents:			
	<b>is(octyldithio)-1,3,4</b> - ssment	•thiadia :	<b>zole:</b> The substance or mixture is not c organ toxicant, single exposure.	classified as specific target
STO	F - repeated exposu	re		
Com	ponents:			
2,5-b	is(octyldithio)-1,3,4-	thiadia	zole:	
Asse	ssment	:	The substance or mixture is not or organ toxicant, repeated exposur	
Repe	eated dose toxicity			
<u>Prod</u> Rema		:	This information is not available.	
Aspi	ration toxicity			
<u>Prod</u> This i	<u>uct:</u> information is not ava	ilable.		
<u>Com</u>	ponents:			
	llates (petroleum), h spiration toxicity class	-	eated heavy paraffinic: า	
	is(octyldithio)-1,3,4- spiration toxicity class			
Furth	ner information			
<u>Prod</u> Rema		:	Information given is based on dat the toxicology of similar products.	





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NGP-320				
Version 2.0	Revision Date: 07/28/2022		e of last issue: 10/18/2021 e of first issue: 10/18/2021	Print Date: 07/29/2022
SECTION	12. ECOLOGICAL INF	ORM	IATION	
Ecoto	oxicity			
Produ	uct:			
	ty to fish	:	Remarks: No data available	
	ty to daphnia and other ic invertebrates	:	Remarks: No data available	
Toxici plants	ty to algae/aquatic	:	Remarks: No data available	
Toxici	ty to microorganisms	:	Remarks: No data available	
<u>Comp</u>	oonents:			
	l <b>ates (petroleum), hyd</b> ty to fish	rotro :	eated heavy paraffinic: LC50 (Pimephales promelas (fathead Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes	minnow)): > 100 mg/l
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water flea)): Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202 GLP: yes	> 10,000 mg/l
	ty to daphnia and other ic invertebrates (Chron- city)		NOEC (Daphnia magna (Water flea)): Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211 GLP: yes	: 10 mg/l
Benze	enamine, N-phenyl-, re	eacti	on products with 2,4,4-trimethylpen	tene:
Toxici	ty to fish	:	LC50 (Danio rerio (zebra fish)): > 100 Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203	mg/l





rsion	Revision Date: 07/28/2022		e of last issue: 10/18/2021 e of first issue: 10/18/2021	Print Date: 07/29/2022
	y to daphnia and other c invertebrates	• :	EC50 (Daphnia magna (Water flea) Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	
Toxicit plants	y to algae/aquatic	:	EC50 (Desmodesmus subspicatus Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201	(green algae)): > 100 mg
Persis	tence and degradabi	lity		
<u>Produ</u>	<u>ct:</u>			
Biodeg	gradability	:	Remarks: No data available	
Physic ity	o-chemical removabil-	:	Remarks: No data available	
<u>Comp</u>	onents:			
Distilla	ates (petroleum), hyd	lrotre	ated heavy paraffinic:	
Biodeg	gradability	:	aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 3 % Exposure time: 28 d Method: OECD Test Guideline 301 GLP: yes	В
Benze	namine, N-phenyl-, re	eacti	on products with 2,4,4-trimethylp	entene:
Biodeg	gradability	:	aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 1 % Exposure time: 28 d Method: OECD Test Guideline 301 GLP: yes	В
Bioaco	cumulative potential			
<u>Produ</u>	<u>ct:</u>			
Bioacc	cumulation	:	Remarks: This mixture contains no be persistent, bioaccumulating and This mixture contains no substance persistent and very bioaccumulating	toxic (PBT). considered to be very





# NGP-320

sion	Revision Date: 07/28/2022		e of last issue: 10/18/2021 e of first issue: 10/18/2021	Print Date: 07/29/2022
Com	a a nontre			
	ponents:			
			eated heavy paraffinic:	
	ion coefficient: n- ol/water	:	log Pow: > 2	
Benz	enamine, N-phenyl-, ı	react	ion products with 2,4,4-trimethylp	pentene:
	ion coefficient: n- ol/water	:	log Pow: > 5	
Mobi	lity in soil			
Prod	uct:			
Mobil		:	Remarks: No data available	
	bution among environ- al compartments	:	Remarks: No data available	
Othe	r adverse effects			
Prod	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
Additi matio	ional ecological infor- n	:	No information on ecology is availa	able.
<u>Com</u>	oonents:			
Distil	lates (netroleum) by	drotr	eated heavy paraffinic:	
Resu	Its of PBT and vPvB	:	Non-classified vPvB substance No	on-classified PBT substa

# 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.





### **NGP-320**

Version	Revision Date:	Date of last issue: 10/18/2021	Print Date: 07/29/2022
2.0	07/28/2022	Date of first issue: 10/18/2021	
Conta	minated packaging	: Packaging that is not properly emp the unused product. Dispose of waste product or used 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**

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	:	Respiratory or skin sensitisation 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).





>= 1 - < 5 %

### **NGP-320**

Version	Revision Date:	Date of last issue: 10/18/2021	Print Date:
2.0	07/28/2022	Date of first issue: 10/18/2021	07/29/2022

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

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

This product does not contain any priority pollutants related to the U.S. Clean Water Act

### **US State Regulations**

Massachusetts Right To Know	
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7
Pennsylvania Right To Know	
Distillates (petroleum), hydrotreated heavy paraffinic 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	64742-54-7 68515-49-1
Maine Chemicals of High Concern	
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1
Vermont Chemicals of High Concern	
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1
Triphenyl phosphate tris(methylphenyl) phosphate	115-86-6 1330-78-5
Washington Chemicals of High Concern	
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1
Triphenyl phosphate tris(methylphenyl) phosphate	115-86-6 1330-78-5
New York City Hazardous Substances	
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	68515-49-1
Distillates (petroleum), hydrotreated middle Triphenyl phosphate Distillates (petroleum), hydrotreated light paraffinic	64742-46-7 115-86-6 64742-55-8

#### 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.





#### **NGP-320**

Vers 2.0		evision Date: 7/28/2022	Date of last issue: 10/18/2021 Date of first issue: 10/18/2021	Print Date: 07/29/2022					
California List of Hazardous Substances									
		68515-49-1							
California Permissible Exposure Limits for Chemical Contaminants									
		64742-54-7							
	TSCA list								
No substances are subject to a Significant New Use Rule.									

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

#### **SECTION 16. OTHER INFORMATION**

#### Further information

#### Full text of other abbreviations

ACGIH NIOSH REL		USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits
OSHA P0		USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA		8-hour time weighted average

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





### **NGP-320**

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- 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

#### Revision Date : 07/28/2022

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