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

1.1 Product identifier		
Product name	:	DSL-1220
Article-No.	:	340025
1.2 Relevant identified uses of the	ne 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	saf	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)

Long-term (chronic) aquatic hazard,	H412: Harmful to aquatic life with long lasting
Category 3	effects.



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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)

Hazard statements	:	H412	Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P273	Avoid release to the environment.

### **Additional Labelling**

EUH208 Contains triphenyl phosphite. May produce an allergic reaction.

### 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

ester oil Synthetic hydrocarbon 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)
White mineral oil (petroleum)	8042-47-5 232-455-8	Asp. Tox.1; H304		>= 1 - < 10
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0 276-737-9 649-482-00-X	Asp. Tox.1; H304	Note L	>= 1 - < 10
Benzenamine, N-	68411-46-1	Repr.2; H361f		>= 0.25 - < 1







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phenyl-, reaction products with 2,4,4- trimethylpentene	270-128-1	Aquatic Chronic3; H412		
Phenol, isobutylenated, phosphate (3:1)	68937-40-6 273-065-8	Aquatic Acute1; H400 Aquatic Chronic1; H410	M-Factor: 1/1	>= 0.25 - < 1
Reaction mass of 3- methylphenyl diphenyl phosphate, 4- methylphenyl diphenyl phosphate, bis(3- methylphenyl) phenyl phosphate, 3- methylphenyl 4- methylphenyl phenyl phosphate and triphenyl phosphate	945-730-9	Aquatic Acute1; H400 Aquatic Chronic3; H412	M-Factor: 1/	>= 0.25 - < 1
triphenyl phosphate	115-86-6 204-112-2	Aquatic Acute1; H400 Aquatic Chronic2; H411	M-Factor: 1/1	>= 0.1 - < 0.25
triphenyl phosphite	101-02-0 202-908-4 015-105-00-7	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1; H317 STOT RE2; H373 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 5 % Skin Irrit.2, H315 >= 5 % Eye Irrit.2, H319 M-Factor: 1/1	>= 0.1 - < 0.25

For explanation of abbreviations see section 16.

:

## **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 medical attention.



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		Keep patient warm and at rest. If unconscious, place in recovery position and seek med advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respiration.	dical			
In	case of skin contact	<ul> <li>Take off all contaminated clothing immediately. Get medical attention immediately if irritation develops a 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>	Get medical attention immediately if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse.			
In	case of eye contact	<ul> <li>Rinse immediately with plenty of water, also under the e for at least 10 minutes.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>	∍yelids,			
lf	swallowed	<ul> <li>Move the victim to fresh air.</li> <li>If unconscious, place in recovery position and seek med advice.</li> <li>Keep respiratory tract clear.</li> <li>Do NOT induce vomiting.</li> <li>Obtain medical attention.</li> <li>Rinse mouth with water.</li> <li>Never give anything by mouth to an unconscious person</li> </ul>				
4.2 Mo	ost important symptoms	and effects, both acute and delayed				
S	ymptoms	: Allergic appearance				
Ri	isks	: May cause an allergic skin reaction.				
4.3 Ind	lication of any immedia	e medical attention and special treatment needed				
Tr	reatment	: The first aid procedure should be established in consult with the doctor responsible for industrial medicine.	ation			

# **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

# 5.2 Special hazards arising from the substance or mixture

Hazardous combustion	:	Carbon oxides
products		



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### 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. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	<ul> <li>Evacuate personnel to safe areas.</li> <li>Use personal protective equipment.</li> <li>Ensure adequate ventilation.</li> <li>Do not breathe vapours or spray mist.</li> <li>Refer to protective measures listed in sections 7 and 8.</li> </ul>
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### 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.
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### 6.3 Methods and material for containment 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 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.



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		Smoking, eating and drinking application area. Wash hands and face before handling the product. Do not get in eyes or mouth o Do not get on skin or clothing. Do not ingest. Do not repack. Do not re-use empty containe These safety instructions also may still contain product resid Keep container closed when r	breaks and immediately after r on skin. rs. apply to empty packaging which lues.
Hygie	ene measures	: Wash face, hands and any ex handling.	posed skin thoroughly after
7.2 Condi	itions for safe storag	je, including any incompatibilities	
	irements for storage s and containers	use. Keep in a dry, cool and w	•
•	f <b>ic end use(s)</b> ific use(s)	: Specific instructions for handli	ing, not required.

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
triphenyl phosphate	115-86-6	TWA	3 mg/m3	GB EH40 (2005-04-06)
		STEL	6 mg/m3	GB EH40 (2005-04-06)

## Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
1,2- Benzenedicarboxylic acid, di-C9-11- branched alkyl esters, C10-rich	Workers	Inhalation	Long-term systemic effects	5.29 mg/m3
	Workers	Dermal	Long-term systemic effects	41.67 mg/kg bw/day



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White mineral oil (petroleum)	Workers	Inhalation	Long-term systemic effects	160 mg/m3
	Workers	Dermal	Long-term systemic effects	220 mg/kg bw/day
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	Workers	Inhalation	Long-term systemic effects	2.7 mg/m3
	Workers	Inhalation	Long-term local effects	5.6 mg/m3
	Workers	Skin contact	Long-term systemic effects	1 mg/kg bw/day
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
Phenol, isobutylenated, phosphate (3:1)	Workers	Inhalation	Long-term systemic effects	7.58 mg/m3
	Workers	Skin contact	Long-term systemic effects	10.75 mg/kg
Reaction mass of 3- methylphenyl diphenyl phosphate, 4- methylphenyl diphenyl phosphate, bis(3- methylphenyl) phenyl phosphate, 3- methylphenyl 4- methylphenyl phenyl phosphate and triphenyl phosphate	Workers	Inhalation	Long-term systemic effects	3.5 mg/m3
	Workers	Inhalation	Acute systemic effects	28 mg/m3
	Workers	Dermal	Long-term systemic effects	0.5 mg/kg bw/day
	Workers	Dermal	Acute systemic effects	4 mg/kg bw/day
triphenyl phosphate	Workers	Inhalation	Long-term systemic effects	5.2 mg/m3
	Workers	Skin contact	Long-term systemic effects	5.55 mg/kg bw/day
triphenyl phosphite	Workers	Inhalation	Long-term systemic effects	1.06 mg/m3
	Workers	Inhalation	Long-term local effects	
	Remarks:No	hazard identified		



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Workers	Inhalation	Acute systemic effects	
Remarks:No haz	zard identified		
Workers	Inhalation	Acute local effects	
Remarks:No haz	zard identified		
Workers	Dermal	Long-term systemic effects	0.3 mg/kg
Workers	Dermal	Long-term local effects	0.0117 mg/cm2
Workers	Dermal	Acute systemic effects	
Remarks:No hazard identified			
Workers	Dermal	Acute local effects	0.0117 mg/cm2

# 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
	Marine sediment	0.045 mg/kg
	Soil	1.76 mg/kg
Phenol, isobutylenated, phosphate (3:1)	Fresh water	0.00399 mg/l
	Marine water	0.000399 mg/l
	Intermittent use/release	0.00202 mg/l
	Fresh water sediment	3.12 mg/kg
	Marine sediment	0.312 mg/kg
	Soil	0.246 mg/kg
Reaction mass of 3-methylphenyl diphenyl phosphate, 4- methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3- methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate	Fresh water	0.002 mg/l
	Marine water	0.0002 mg/l
	Fresh water sediment	3.43 mg/kg
	Marine sediment	0.343 mg/kg
triphenyl phosphate	Fresh water	0.004 mg/l
· · ·	Intermittent use/release	0.003 mg/l
	Marine water	0.0004 mg/l
	Sewage treatment plant	5 mg/l
	Fresh water sediment	1.103 mg/kg dry



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1	1	weight (d.w.)
	Marine sediment	0.11 mg/kg dry
		weight (d.w.)
	Soil	0.218 mg/kg dry
		weight (d.w.)
	Oral	16.667 mg/kg

#### 8.2 Exposure controls

### **Engineering measures**

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

#### Personal protective equipment Safety glasses with side-shields Eye/face protection : Hand protection Material Nitrile rubber ÷ Break through time > 10 min Class 1 Protective index : 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



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	рН		:	Not applicable	
	Melting	point/range	:	No data available	
	Boiling	point/boiling range	:	No data available	
	Flash p	oint	:	> 260 °C Method: open cup	
	Evapor	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	< 0.001 hPa (20 °C)	
	Relative	e vapour density	:	No data available	
	Relativ	e density	:	0.917 (20 °C) Reference substance: Water The value is calculated	
	Density	,	:	0.92 g/cm3 (20 °C)	
	Bulk de	ensity	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Solu	ubility in other solvents	:	No data available	
	Partitio octanol	n coefficient: n- /water	:	No data available	
	Auto-ig	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, dynamic	:	No data available	
	Visc	osity, kinematic	:	240 mm2/s (40 °C)	
	Explosi	ve properties	:	Not explosive	



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Oxidizing properties		: No data available	
9.2 Other	information		
Sublimation point		: No data available	
Self-ignition		: No data available	

# **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No hazards to be specially mentioned.

#### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	: No dangerous reaction known under conditions of normal use.
<b>10.4 Conditions to avoid</b> Conditions to avoid	: No conditions to be specially mentioned.

# 10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

#### **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

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:**

White mineral oil (petroleum):



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Acute	e oral toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401	
Acute	e inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mix inhalation toxicity</li> </ul>	
Acute	e dermal toxicity	<ul> <li>LD50 (Rabbit): &gt; 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mix toxicity</li> </ul>	
lubrie	cating oils (petroleun	), C15-30, hydrotreated neutral oil-bas	ed:
Acute	e oral toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes	
Acute	e dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402 GLP: yes	2
Benz	enamine, N-phenyl-,	eaction products with 2,4,4-trimethylp	entene:
Acute	e oral toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401	
Acute	e dermal toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mix toxicity	
Phen	ol, isobutylenated, p	nosphate (3:1):	
Acute	e oral toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401	
Acute	e dermal toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402	2
	ylphenyl) phenyl phosp	henyl diphenyl phosphate, 4-methylpheny hate, 3-methylphenyl 4-methylphenyl phe	

:

Acute oral toxicity

: LD50 (Rat): > 5,000 mg/kg



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Acute	e dermal toxicity	<ul> <li>LD50 (Rat): &gt; 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mixture has no acute de toxicity</li> </ul>	rmal		
triphe	enyl phosphate:				
-	oral toxicity	: LD50 (Rat): > 20,000 mg/kg Method: OECD Test Guideline 401			
Acute	inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 200 mg/l Exposure time: 1 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity</li> </ul>			
Acute	e dermal toxicity	: LD50 (Rabbit): > 10,000 mg/kg Method: OECD Test Guideline 402			
triphe	enyl phosphite:				
-	oral toxicity	: LD50 (Rat): 1,590 mg/kg Method: OECD Test Guideline 401			
Acute	inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 6.7 mg/l Exposure time: 1 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity</li> </ul>			
Acute	e dermal toxicity	<ul> <li>LD50 (Rabbit): &gt; 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The component/mixture is minimally toxic a single contact with skin.</li> </ul>	after		
Skin	corrosion/irritation				
<u>Produ</u> Rema		: This information is not available.			
<u>Com</u>	oonents:				
White	e mineral oil (petrole	m):			
Speci Asses Metho Resul GLP	ssment od	<ul> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>yes</li> </ul>			



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

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

#### Phenol, isobutylenated, phosphate (3:1):

Species	:	Rabbit
Assessment	:	No skin irritation
Result	:	No skin irritation

Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate

•		
Species	: Ra	bbit
Assessment	: No	skin irritation
Method	: OE	CD Test Guideline 404
Result	: No	skin irritation

#### triphenyl phosphate:

.

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

#### triphenyl phosphite:

Assessment	:	Irritating to skin.
Result	:	Irritating to skin.

#### Serious eye damage/eye irritation

#### Product:

Remarks

: This information is not available.

#### **Components:**

### White mineral oil (petroleum):

Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
GLP	:	yes
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#### Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

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

#### Phenol, isobutylenated, phosphate (3:1):

Rabbit
No eye irritation
OECD Test Guideline 405
No eye irritation

Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate

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

#### triphenyl phosphate:

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

#### triphenyl phosphite:

Species	:	Rabbit
Assessment	:	Irritating to eyes.
Method	:	OECD Test Guideline 405
Result	:	Irritating to eyes.

### Respiratory or skin sensitisation

#### Product:

Remarks

: This information is not available.

#### **Components:**

#### White mineral oil (petroleum):

Test Type	: Buehler Test
Species	: Guinea pig



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Asse: Methe Resu GLP		<ul> <li>Does not cause skin sensitisation</li> <li>OECD Test Guideline 406</li> <li>Does not cause skin sensitisation</li> <li>yes</li> </ul>	
Benz	enamine, N-phenyl	-, reaction products with 2,4,4-trimethy	Ipentene:
Spec	ies	: Guinea pig	
•	ssment	: Did not cause sensitisation on la	boratory animals.
Meth		: OECD Test Guideline 406	
Resu	lt	: Did not cause sensitisation on la	boratory animals.
Phen	ol, isobutylenated,	phosphate (3:1):	
	ssment	: Does not cause skin sensitisation	
Resu	lt	: Does not cause skin sensitisation	n.
	ylphenyl) phenyl pho	ylphenyl diphenyl phosphate, 4-methylphe osphate, 3-methylphenyl 4-methylphenyl p	
methy phose : Asses	ylphenyl) phenyl pho ohate ssment	sphate, 3-methylphenyl 4-methylphenyl p : Did not cause sensitisation on la	henyl phosphate and tripher
methy phose	ylphenyl) phenyl pho ohate ssment	sphate, 3-methylphenyl 4-methylphenyl p	henyl phosphate and tripher
methy phosp : Asse: Resu tripho	ylphenyl) phenyl pho ohate ssment It <b>enyl phosphate:</b>	sphate, 3-methylphenyl 4-methylphenyl p : Did not cause sensitisation on la	henyl phosphate and tripher
methy phose : Asse: Resu triphe Spec	ylphenyl) phenyl pho ohate ssment It <b>enyl phosphate:</b> ies	<ul> <li>Sphate, 3-methylphenyl 4-methylphenyl p</li> <li>Did not cause sensitisation on lai</li> <li>Did not cause sensitisation on lai</li> <li>Guinea pig</li> </ul>	henyl phosphate and tripher boratory animals. boratory animals.
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methy phosp : Asses Resu tripho Spec Asses Metho Resu GLP	ylphenyl) phenyl pho ohate ssment It <b>enyl phosphate:</b> ies ssment od	<ul> <li>Did not cause sensitisation on lai</li> <li>Did not cause sensitisation on lai</li> <li>Did not cause sensitisation on lai</li> <li>Guinea pig</li> <li>Does not cause skin sensitisation</li> <li>OECD Test Guideline 406</li> <li>Does not cause skin sensitisation</li> </ul>	henyl phosphate and tripher boratory animals. boratory animals.
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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 - GB



## **DSL-1220**

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1.0	05.06.2023	Date of first issue: 05.06.2023	05.06.2023

### Components:

### White mineral oil (petroleum):

Germ cell mutagenicity-	:
Assessment	

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate

:	
Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
triphenyl phosphate:	
Genotoxicity in vitro :	Test Type: reverse mutation assay Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
Germ cell mutagenicity- : Assessment	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
triphenyl phosphite:	
Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo :	Test Type: In vivo micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Method: OECD Test Guideline 474 Result: negative
Carcinogenicity	
Product:	
Remarks :	No data available



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<ul> <li>methylphenyl phosphate, 3-methylphenyl 4-methylphenyl phosphate and tripher phosphate</li> <li>Reproductive toxicity -         <ul> <li>Fertility -</li> <li>Assessment</li> <li>No evidence of adverse effects on sexual function and fertilit or on development, based on animal experiments.</li> </ul> </li> <li>triphenyl phosphate:         <ul> <li>Effects on foetal development</li> <li>Species: Rabbit Application Route: Oral</li> </ul> </li> </ul>		Revision Date: 05.06.2023		e of last issue: - e of first issue: 05.06.2023	Print Date: 05.06.2023
Carcinogenicity - Assessment No evidence of carcinogenicity in animal studies. Assessment Assessment No evidence of carcinogenicity in animal studies. Assessment Reproductive toxicity Product: Effects on fertility Remarks: No data available Effects on ofetal Remarks: No data available Effects on ofetal Remarks: No data available development Reproductive toxicity - Remarks: No data available Mhite mineral oil (petroleum): Reproductive toxicity - Pertility - Assessment No evidence of available Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Reproductive toxicity - Fertility - No effects on or via lactation Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Reproductive toxicity - Fertility - Assessment Some evidence of adverse effects on sexual function and fertility, based on animal experiments. Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl diphenyl phosphate and tripher phosphate : Reproductive toxicity - Fertility - Assessment Some evidence of adverse effects on sexual function and fertility - Assessment Some evidence of adverse effects on sexual function and fertility - Assessment Some evidence of adverse effects on sexual function and fertility or on development, based on animal experiments.	<u>Com</u>	ponents:			
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Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies. Assessment : No evidence of carcinogenicity in animal studies. Reproductive toxicity : Effects on fertility : Remarks: No data available Effects on foetal : Remarks: No data available development : Components: White mineral oil (petroleum): Reproductive toxicity - : - Fertility - Assessment : No effects on or via lactation Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Reproductive toxicity - : - Fertility - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments. Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bisis methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phosphate and tripher phosphate : : Reproductive toxicity - : - Fertility - Assessment : - Fertility - No evidence of adverse effects on sexual function and fertility. based on animal experiments. Reproductive toxicity - : - Fertility - No evidence of adverse effects on sexual function and fertilit or on development, based on animal experiments. triphenyl phosphate: Effects on foetal : Species: Rabbit development : Application Route: Oral			:	No evidence of carcinogenicity in a	animal studies.
Product:         Effects on fertility       :         Reflects on fertility       :         Remarks: No data available         development         Components:         White mineral oil (petroleum):         Reproductive toxicity -         Assessment         No toxicity to reproduction         - Teratogenicity -         No effects on or via lactation         Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:         Reproductive toxicity -       : - Fertility -         Assessment       Some evidence of adverse effects on sexual function and fertility, based on animal experiments.         Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bisis methylphenyl phosphate, 3-methylphenyl 4-methylphenyl phosphate and tripher phosphate         :       Reproductive toxicity -       : - Fertility -         Assessment       : - Fertility -         Reservery of phosphate       : - Fertility -         Assessment       : - Fertility -         No evidence of adverse effects on sexual function and fertility or on development, based on animal experiments.         triphenyl phosphate:       : - Fertility -         No evidence of adverse effects on sexual function and fertility or on development, based on animal experiments.         triphenyl phosphate:       : S	Carci	nogenicity -	:	No evidence of carcinogenicity in a	animal studies.
Effects on foetal       :       Remarks: No data available         Effects on foetal       :       Remarks: No data available         development       :       Remarks: No data available         Components:       :       .         White mineral oil (petroleum):       .       .         Reproductive toxicity -       :       .         Assessment       .       .         No toxicity to reproduction       .       .         - Teratogenicity -       .       No effects on or via lactation         Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:       .         Reproductive toxicity -       :       .         Assessment       Some evidence of adverse effects on sexual function and fertility, based on animal experiments.         Reparation mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl phosphate and tripher phosphate       .         :       .       .         Reproductive toxicity -       :       .	Repr	oductive toxicity			
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development         Components:         White mineral oil (petroleum):         Reproductive toxicity -       : - Fertility -         Assessment       No toxicity to reproduction - Teratogenicity -         No effects on or via lactation         Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:         Reproductive toxicity -       : - Fertility -         Assessment       Some evidence of adverse effects on sexual function and fertility, based on animal experiments.         Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis( methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phosphate and tripher phosphate         :       Reproductive toxicity -         :       Reproductive toxicity -         :       No evidence of adverse effects on sexual function and fertility or on development, based on animal experiments.         triphenyl phosphate:       Effects on foetal development         Effects on foetal development       : Species: Rabbit Application Route: Oral	Effect	ts on fertility	:	Remarks: No data available	
White mineral oil (petroleum):         Reproductive toxicity -       :       - Fertility -         Assessment       No toxicity to reproduction         - Teratogenicity -       No effects on or via lactation         Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:         Reproductive toxicity -       :         Assessment       :         Some evidence of adverse effects on sexual function and fertility, based on animal experiments.         Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bist methylphenyl) phosphate, 3-methylphenyl 4-methylphenyl phosphate and tripher phosphate         :       Reproductive toxicity -         :       Reproductive toxicity -         :       Reproductive toxicity -         :       No evidence of adverse effects on sexual function and fertility or on development, based on animal experiments.         triphenyl phosphate:       :         triphenyl phosphate:       :         Effects on foetal       :         development       Application Route: Oral			:	Remarks: No data available	
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Assessment       No toxicity to reproduction - Teratogenicity - No effects on or via lactation         Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Reproductive toxicity - Assessment       : - Fertility - Some evidence of adverse effects on sexual function and fertility, based on animal experiments.         Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phosphate and tripher phosphate         : Reproductive toxicity - Assessment       : - Fertility - No evidence of adverse effects on sexual function and fertility or on development, based on animal experiments.         triphenyl phosphate: Effects on foetal development       : Species: Rabbit Application Route: Oral	White	e mineral oil (petrol	eum):		
No toxicity to reproduction         - Teratogenicity -         No effects on or via lactation         Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:         Reproductive toxicity -         Assessment         Some evidence of adverse effects on sexual function and fertility, based on animal experiments.         Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, biss methylphenyl phosphate, 3-methylphenyl 4-methylphenyl phosphate and tripher phosphate         :         Reproductive toxicity -         :         :         :         :         :         :         : <td< td=""><td></td><td></td><td>:</td><td>- Fertility -</td><td></td></td<>			:	- Fertility -	
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rsion	Revision Date: 05.06.2023		e of last issue: - e of first issue: 05.06.2023	Print Date:
	05.06.2023	Date	e of first issue: 05.06.2023	05.06.2023
			Teratogenicity: NOAEL: >= 200 m Developmental Toxicity: NOAEL: >= Embryo-foetal toxicity: NOAEL: >= Method: OECD Test Guideline 41 Result: No effects on fertility and e development were detected.	>= 200 mg/kg body weigh = 200 mg/kg body weight 4
	oductive toxicity -	:	- Fertility -	
Asses	ssment		No toxicity to reproduction - Teratogenicity -	
			No effects on or via lactation	
Effec	<b>enyl phosphite:</b> ts on foetal opment	:	Species: Rat Application Route: Oral General Toxicity Maternal: NOAEI Teratogenicity: NOAEL: 40 Developmental Toxicity: NOAEL: Embryo-foetal toxicity: NOAEL: 15 Method: OECD Test Guideline 42	15
STO	Γ - single exposure			
<u>Prod</u> Rema		:	No data available	
Com	ponents:			
White	e mineral oil (petroleu	m):		
Asse	ssment	:	The substance or mixture is not cl organ toxicant, single exposure.	assified as specific target
_	Г - repeated exposure			
STO				
STO Prode Rema		:	No data available	
<u>Prod</u> Rema		:	No data available	
<u>Prode</u> Rema <u>Com</u>	arks	: m):	No data available	
Prode Rema <u>Com</u> White	arks ponents:	: m): :	No data available The substance or mixture is not cl organ toxicant, repeated exposure	
Produ Rema Com White Asses	arks ponents: e mineral oil (petroleu	: m): :	The substance or mixture is not cl	
Produ Rema Com White Asses	arks ponents: e mineral oil (petroleu ssment vated dose toxicity	: m): :	The substance or mixture is not cl	



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1.0	05.06.2023	Date of first issue: 05.06.2023	05.06.2023

# Components:

triphenyl phosphate: Species NOAEL Application Route Method	:	Rat 105 mg/kg Oral OECD Test Guideline 408
Species NOAEL Application Route triphenyl phosphite:	:	Rabbit 1,000 mg/kg Dermal
Species NOAEL Method Target Organs Assessment		<u>Rat</u> <u>15 mg/kg</u> <u>OECD Test Guideline 422</u> <u>Nervous system</u> <u>The substance or mixture is classified as specific target</u> <u>organ toxicant, repeated exposure, category 2.</u>
Repeated dose toxicity -	<u>:</u>	Chronic exposure damages the brain and the central

nervous system.

## Aspiration toxicity

### Product:

Assessment

This information is not available.

### **Components:**

#### White mineral oil (petroleum):

May be fatal if swallowed and enters airways.

### lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:

May be fatal if swallowed and enters airways.

### triphenyl phosphate:

No aspiration toxicity classification

### **Further information**

#### Product:

Remarks

: Information given is based on data on the components and the toxicology of similar products.



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### **SECTION 12: Ecological information**

### 12.1 Toxicity

### Product:

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
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

<u>Product:</u> Mobility	:	Remarks: No data available
Distribution among environmental compartments	:	Remarks: No data available

### 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	:	Harmful to aquatic life with long lasting effects.

# **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
IMDG	:	Not regulated as a dangerous good



DGI 4000

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Version 1.0	Revision Date: 05.06.2023	Date of last issue: -Print Date:Date of first issue: 05.06.202305.06.2023	
ΙΑΤΑ	L .	: Not regulated as a dangerous good	
14.2 UN p	proper shipping name		
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDO	3	: Not regulated as a dangerous good	
ΙΑΤΑ	L .	: Not regulated as a dangerous good	
14.3 Tran	sport hazard class(e	)	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDO	G	: Not regulated as a dangerous good	
ΙΑΤΑ	۱.	: 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	3	: 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	
-	cial precautions for u applicable	er	
14.7 Mari	time transport in bul	according to IMO instruments	
Rem	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)

: Conditions of restriction for the following entries should be considered: Number on list 3



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				1,2-Benzenedicarboxylic acid, di-C9- 11-branched alkyl esters, C10-rich (Number on list 52)
con	REACH Candidate list cern (SVHC) for Author ( SVHC)	of substances of very high isation	:	This product does not contain substances of very high concern (UK: The REACH etc. (Amendment) Regulations, Article 57).
Reg Brita	julation (EU) 2019/1021	llutants Regulations (retained I as amended for Great	:	Not applicable
dep	gulation (EC) No 1005/2 lete the ozone layer C 1005/2009)	2009 on substances that	:	Not applicable
(An	REACH List of substan nex XIV) K. REACH Annex XIV)	ces subject to authorisation	:	Not applicable
Info	Export and import of ha rmed Consent (PIC) Re 3 PIC)	azardous chemicals - Prior egulation	:	Not applicable
	ulation (EU) 2019/1148 losives precursors	3 on the marketing and use of	:	Not applicable
	ntrol of Major Accident H 5 (COMAH)	lazards Regulations		Not applicable
Vola	atile organic compound			4 November 2010 on industrial ution prevention and control)

### 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.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.



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#### 15.2 Chemical safety assessment

This information is not available.

### **SECTION 16: Other information**

Full text of R-Phrases		
Note L	:	The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method"Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.
Full text of H-Statements		
H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H361f	:	Suspected of damaging fertility.
H373	:	May cause damage to organs through prolonged or repeated exposure.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Note L	:	The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method"Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)



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GB EH40 / STEL

: Short-term exposure limit (15-minute reference period)

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 Verv Bioaccumulative

#### **Classification of the mixture:**

Classification procedure: Calculation method

Aquatic Chronic 3

3

H412

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