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

1.1 Product identifier		
Product name	:	PETAMO GHY 133 N (H)
Article-No.	:	094148
1.2 Relevant identified uses of the	ne s	substance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Grease
Recommended restrictions on use	:	Restricted to professional users.
1.3 Details of the supplier of the	saf	ety data sheet
Company	:	Klüber Lubrication München Geisenhausenerstr. 7 81379 München Deutschland Tel: +49 (0) 89 7876 0 Fax: +49 (0) 89 7876 333 info@klueber.com
E-mail address of person responsible for the SDS	•	mcm@klueber.com Material Compliance Management
National contact	:	Klüber Lubrication Nordic A/S c/o Azets Insight Oy Elielinaukio 5 B 00100 Helsinki Finland Tel: +358 207 497 970 Fax: +358 207 497 970 klueber.fi@fi.klueber.com

1.4 Emergency telephone number

Emergency telephone num- ber	:	09-471 977 Myrkytystietokeskus (24 h) tai 112
		0049 (0) 897876-700 (24hrs)



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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)				
Hazard pictograms :	¥2			
	•			
Hazard statements :	H411	Toxic to aquatic life with long lasting effects.		
Precautionary statements :	Prevention:			
	P273	Avoid release to the environment.		
	Response:			
	P391	Collect spillage.		

Additional Labelling

EUH208 Contains Condensation products of fatty acids, tall oil with 2-amino-2ethylpropanediol. 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.

Ecological information: 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.

Toxicological information: 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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

 Mineral oil.
 Synthetic hydrocarbon oil polyurea



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Components

CAS-No.	Classification	specific concen-	Concentration
EC-No. Index-No. Registration number		tration limit M-Factor Notes Acute toxicity estimate	(% w/w)
430-980-9 01-0000017722-71- 0001 01-0000017722-71- 0002 01-0000017722-71- 0000	Aquatic Chronic4; H413		>= 2,5 - < 10
68937-41-7 273-066-3 01-2119535109-41- XXXX	Repr.2; H361 STOT RE2; H373 Aquatic Chronic1; H410	M-Factor: /10	>= 1 - < 2,5
946-010-7 01-2120770934-44- XXXX	Skin Sens.1; H317		>= 0,1 - < 1
115-86-6 204-112-2	Aquatic Acute1; H400 Aquatic Chronic2; H411	M-Factor: 1/1	>= 0,25 - < 1
place exposure limit :	1		
64742-57-0 265-160-8 649-470-00-4 01-2119489287-22- XXXX	Not classified	Note L	>= 50 - < 70
	Index-No. Registration number 430-980-9 01-0000017722-71- 0001 01-0000017722-71- 0002 01-0000017722-71- 0000 68937-41-7 273-066-3 01-2119535109-41- XXXX 946-010-7 01-2120770934-44- XXXX 115-86-6 204-112-2 place exposure limit : 64742-57-0 265-160-8 649-470-00-4 01-2119489287-22-	Index-No. Registration number Aquatic Chronic4; H413 430-980-9 Aquatic Chronic4; H413 01-0000017722-71- 0002 H413 68937-41-7 Repr.2; H361 STOT RE2; H373 Aquatic Chronic1; H410 6730-66-3 Stor RE2; H373 Aquatic Chronic1; H410 01-2119535109-41- XXXX Skin Sens.1; H317 946-010-7 Skin Sens.1; H317 01-2120770934-44- XXXX Aquatic Acute1; H400 Aquatic Chronic2; H411 place exposure limit : Mot classified 64742-57-0 265-160-8 Not classified	Index-No. Registration number M-Factor Notes Acute toxicity estimate 430-980-9 Aquatic Chronic4; H413 Aquatic Chronic4; H413 01-0000017722-71- 0001 Aquatic Chronic4; H413 M-Factor 68937-41-7 0002 Repr.2; H361 STOT RE2; H373 Aquatic Chronic1; H410 M-Factor: /10 68937-41-7 273-066-3 Stor RE2; H373 Aquatic Chronic1; H410 M-Factor: /10 01-2119535109-41- XXXX Skin Sens.1; H317 M-Factor: /10 946-010-7 Skin Sens.1; H317 M-Factor: 1/1 115-86-6 204-112-2 Aquatic Acute1; H400 Aquatic Chronic2; H411 M-Factor: 1/1 place exposure limit : 64742-57-0 265-160-8 Not classified Note L 649-470-00-4 01-2119489287-22- Not classified Note L

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 medical attention. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respira- tion.
In case of skin contact	 Take off all contaminated clothing immediately. Get medical attention immediately if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse. Wash off immediately with plenty of water.
In case of eye contact	 Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If eye irritation persists, consult a specialist.
If swallowed	 Move the victim to fresh air. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. Do not induce vomiting without medical advice. Obtain medical attention. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Allergic appearance
Risks	: May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: The first aid procedure should be established in consultation
	with the doctor responsible for industrial medicine.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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



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media

5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus
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 decomposi- tion 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	 Evacuate personnel to safe areas. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release
	(dust).
	Do not breathe vapours, aerosols.
	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. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

:

Methods for cleaning up

Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.

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 : Avoid contact with skin and eyes. For personal protection see section 8. Persons with a history of skin sensitisation problems or asth-



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		used. Smoking, eating and drinking s plication area. 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.	is in which this mixture is being should be prohibited in the ap- preaks and immediately after on skin. apply to empty packaging which ues.
Hygi	iene measures	: Wash face, hands and any exp handling.	oosed skin thoroughly after
7.2 Cond	litions for safe storage	e, including any incompatibilities	
Req	uirements for storage as and containers	: Store in original container. Kee use. Keep in a dry, cool and w	
-	i fic end use(s) cific use(s)	: Specific instructions for handlir	ng, 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
residual oils (petro- leum), hydrotreat- ed	64742-57-0	HTP-arvot 8h (Mist)	5 mg/m3	FI OEL (2012-05-01)
triphenyl phos- phate	115-86-6	HTP-arvot 8h	3 mg/m3	FI OEL (2007-08-09)
		HTP-arvot 15 min	6 mg/m3	FI OEL (2007-08-09)

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
residual oils (petrole- um), hydrotreated	Workers	Inhalation	Long-term systemic effects	2,7 mg/m3
	Workers	Inhalation	Acute systemic ef-	5,6 mg/m3



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			fects	
	Workers	Skin contact	Long-term systemic effects	1 mg/kg
O,O,O-triphenyl phosphorothioate	Workers	Inhalation	Long-term systemic effects	1,39 mg/m3
· · ·	Workers	Skin contact	Long-term systemic effects	0,4 mg/kg
Phenol, isopropylated, phosphate (3:1)	Workers	Inhalation	Long-term systemic effects	0,145 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	700 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,416 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	2000 mg/kg bw/day
	Workers	Skin contact	Acute local effects	16 mg/cm2
Condensation prod- ucts of fatty acids, tall oil with 2-amino-2- ethylpropanediol	Workers	Dermal	Long-term systemic effects	8,33 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

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
O,O,O-triphenyl phosphorothio- ate	Sewage treatment plant	1 mg/l
	Soil	2,37 mg/l
Phenol, isopropylated, phosphate (3:1)	Fresh water	0 mg/l
	Intermittent use/release	0,015 mg/l
	Marine water	0 mg/l
	Sewage treatment plant	100 mg/kg
	Fresh water sediment	0,185 mg/kg dry weight (d.w.)
	Marine sediment	0,018 mg/kg dry weight (d.w.)
	Soil	2,5 mg/kg dry weight (d.w.)
	Oral	1,85 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 weight (d.w.)
	Marine sediment	0,11 mg/kg dry weight (d.w.)
	Soil	0,218 mg/kg dry weight (d.w.)



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		Oral	16,667 mg/kg
sure controls			
neering measures			
le only in a place equ	lipped	with local exhaust (or other approp	riate exhaust).
onal protective equi	pment		
protection	:	Safety glasses with side-shields	
protection aterial eak through time rotective index	:	Nitrile rubber > 10 min Class 1	
emarks	:	Wear protective gloves. The brea amongst other things on the mate type of glove and therefore has to case. The selected protective gloves ha tions of Regulation (EU) 2016/428 derived from it.	erial, the thickness and the be measured for each ave to satisfy the specifica-
iratory protection	:	Not required; except in case of a	erosol formation.
lter type	:	Filter type P	
ctive measures	:	The type of protective equipment to the concentration and amount at the specific workplace. Choose body protection in relatio tration and amount of dangerous cific work-place.	of the dangerous substance n to its type, to the concen-
	11.10.2021 sure controls neering measures le only in a place equi orotection protection aterial eak through time rotective index emarks	11.10.2021 Date sure controls neering measures le only in a place equipped work le only in a place equipment protection protection : aterial : rotective index : emarks : iratory protection : iter type :	11.10.2021 Date of first issue: 28.07.2015 Oral Oral Bure controls neering measures le only in a place equipped with local exhaust (or other approp onal protective equipment protection : aterial : eak through time : otective index : class 1 emarks : wear protective gloves. The bread amongst other things on the mate type of glove and therefore has to case. The selected protective gloves had tions of Regulation (EU) 2016/423 derived from it. iratory protection : iter type : ctive measures : iter type : ctive measures : iter type : ctive measures : : The type of protective equipment to the concentration and amount at the specific workplace. Choose body protection in relatio tration and amount of dangerous

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	paste
Colour	:	brown
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available



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Flammability	: Combustible Solids	
Upper explosion limit / Up flammability limit	per : No data available	
Lower explosion limit / Low flammability limit	wer : No data available	
Flash point	: Not applicable	
Auto-ignition temperature	: No data available	
Decomposition temperature Decomposition temperature		
рН	: Not applicable	
Viscosity		
Viscosity, dynamic	: No data available	
Viscosity, kinematic	: Not applicable	
Solubility(ies) Water solubility	: insoluble	
Solubility in other solve	ents : No data available	
Partition coefficient: n- octanol/water	: No data available	
Vapour pressure	: < 0,001 hPa (20 °C)	
Relative density	: 0,900 (20 °C) Reference substance: Water The value is calculated	
Density	: 0,90 g/cm3 (20 °C)	
Bulk density	: No data available	
Relative vapour density	: No data available	
9.2 Other information		
Explosives	: Not explosive	
Oxidizing properties	: No data available	



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Self-i	gnition	: No data available	
Evaporation rate		: No data available	
Subli	mation point	: 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.					

10.4 Conditions to avoid

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

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:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg
		Method: OECD Test Guideline 423
		GLP: yes



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			Assessment: The substance or m	nixture has no acute oral tox-
Acute	e dermal toxicity		LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 40 Assessment: The substance or m toxicity	
Phen	ol, isopropylated, pl	hospha	te (3:1):	
Acute	e oral toxicity	:	LD50 (Rat): > 5.000 mg/kg	
Acute	e inhalation toxicity		LC50 (Rat): > 200 mg/l Exposure time: 1 h Test atmosphere: dust/mist	
Acute	e dermal toxicity		LD50 (Rabbit): > 10.000 mg/kg GLP: no	
Cond	lensation products o	of fatty	acids, tall oil with 2-amino-2-etl	hylpropanediol:
Acute	e oral toxicity		LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 42 Assessment: The substance or m icity	
Acute	e dermal toxicity		LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 40 Assessment: The substance or m toxicity	
triphe	enyl phosphate:			
Acute	e oral toxicity		LD50 (Rat): > 20.000 mg/kg Method: OECD Test Guideline 40)1
Acute	e inhalation toxicity		LC50 (Rat): > 200 mg/l Exposure time: 1 h Test atmosphere: dust/mist Method: OECD Test Guideline 40 Assessment: The substance or m tion toxicity	
Acute	e dermal toxicity		LD50 (Rabbit): > 10.000 mg/kg Method: OECD Test Guideline 40)2
resid	ual oils (petroleum),	, hydrot	reated:	
	e oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 40)1
Acute	e dermal toxicity	:	LD50 (Rat): > 5.000 mg/kg	



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Skin corrosion/irritation

Product:

Remarks

: This information is not available.

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

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

Phenol, isopropylated, phosphate (3:1):

Species	:	Rabbit
Exposure time	:	72 h
Assessment	:	No skin irritation
Result	:	No skin irritation
GLP	:	no

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:

Species :	reconstructed human epidermis (RhE)
Assessment :	No skin irritation
Result :	No skin irritation

triphenyl phosphate:

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

residual oils (petroleum), hydrotreated:

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

Serious eye damage/eye irritation

Product:

Remarks

: This information is not available.



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Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

:	Rabbit
:	No eye irritation
:	OECD Test Guideline 405
:	No eye irritation
:	yes
	:

Phenol, isopropylated, phosphate (3:1):

Species	:	Rabbit
Assessment	:	No eye irritation
Result	:	No eye irritation
GLP	:	no

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:

Species	:	Rabbit
Assessment	:	No eye irritation
Result	:	No eye irritation

triphenyl phosphate:

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

residual oils (petroleum), hydrotreated:

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

Respiratory or skin sensitisation

Product:

Remarks

: This information is not available.

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

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



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Phenol, isopropylated, phosphate (3:1):

Species	:	Mouse
Assessment	:	Did not cause sensitisation on laboratory animals.
Method	:	OECD Test Guideline 429
Result	:	Did not cause sensitisation on laboratory animals.
GLP	:	yes

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:

Assessment	:	May cause sensitisation by skin contact.
Result	:	May cause sensitisation by skin contact.

triphenyl phosphate:

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

residual oils (petroleum), hydrotreated:

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

Germ cell mutagenicity

Product:

Genotoxicity in vitro	:	Remarks: No data available
Genotoxicity in vivo	:	Remarks: No data available

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexyl-
amine (1:1.58:0.32:0.097):

Genotoxicity in vitro	:	Test Type: Ames test Test system: Salmonella typhimurium Method: OECD Test Guideline 471 Result: negative
		Test Type: Chromosome aberration test in v

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster cells



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			Method: OECD Test Guideline 473 Result: negative	3
Germ sessn	cell mutagenicity- As- nent	:	Tests on bacterial or mammalian c mutagenic effects.	ell cultures did not show
Cond	lensation products of	fatty	acids, tall oil with 2-amino-2-ethy	/lpropanediol:
Geno	toxicity in vitro	:	Remarks: In vitro tests did not show	w mutagenic effects
triphe	enyl phosphate:			
Geno	toxicity in vitro	:	Test Type: reverse mutation assay Test system: Salmonella typhimuri Metabolic activation: with and with Method: OECD Test Guideline 471 Result: negative	um out metabolic activation
Germ sessn	cell mutagenicity- As- nent	:	Tests on bacterial or mammalian c mutagenic effects.	ell cultures did not show
Carci	nogenicity			
Prod	uct:			
Rema	arks	:	No data available	
<u>Com</u>	ponents:			
triphe	enyl phosphate:			
Carci ment	nogenicity - Assess-	:	No evidence of carcinogenicity in a	nimal studies.
resid	ual oils (petroleum), h	ydro	treated:	
Carci ment	nogenicity - Assess-	:	Not classifiable as a human carcine	ogen.
Repro	oductive toxicity			
Prod	uct:			
-	ts on fertility	:	Remarks: No data available	
Effect ment	ts on foetal develop-	:	Remarks: No data available	
<u>Com</u>	ponents:			
Phen	ol, isopropylated, pho	ospha	ate (3:1):	
	oductive toxicity - As-	:	- Fertility -	
sessn	nent		Some evidence of adverse effects fertility, and/or on development, ba	



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		- Teratogenicity -	
		Some evidence of adverse ef fertility, and/or on development	fects on sexual function and nt, based on animal experiment
Cond	ensation products of	of fatty acids, tall oil with 2-amino-2	2-ethylpropanediol:
	oductive toxicity - As-	: - Fertility -	
sessn	nent	Animal testing did not show a	ny effects on fertility.
triphe	enyl phosphate:		
Effect ment	s on foetal develop-	Teratogenicity: NOAEL: >= 20 Developmental Toxicity: NOA Embryo-foetal toxicity: NOAE Method: OECD Test Guidelin	EL: >= 200 mg/kg body weight L: >= 200 mg/kg body weight
Reproductive toxicity - As- sessment	: - Fertility -		
	No toxicity to reproduction - Teratogenicity -		
		No effects on or via lactation	
STOT	- single exposure		
<u>Com</u>	oonents:		
	ion product of diphe e (1:1.58:0.32:0.097)	nylmethanediisocyanate, octylami	ine, oleylamine and cyclohex
	. ,	: The substance or mixture is n organ toxicant, single exposu	
STOT	- repeated exposu	e	
<u>Com</u>	oonents:		
	ion product of diphe e (1:1.58:0.32:0.097)	nylmethanediisocyanate, octylami	ine, oleylamine and cyclohex
Asses	ssment	: The substance or mixture is n organ toxicant, repeated expo	not classified as specific target osure.
Phen	ol, isopropylated, p	nosphate (3:1):	
Targe	sure routes et Organs ssment	 Ingestion ovaries, Testes, Liver, Adrena The substance or mixture is o toxicant, repeated exposure, 	classified as specific target orga
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Repeated dose toxicity

Product:

Remarks

: This information is not available.

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

Species	:	Rat
NOAEL	:	1.000 mg/kg
Application Route	:	Oral
Method	:	OECD Test Guideline 407

triphenyl phosphate:

Species NOAEL Application Route Method	:	Rat 105 mg/kg Oral OECD Test Guideline 408
Species NOAEL Application Route	:	Rabbit 1.000 mg/kg Dermal

Aspiration toxicity

Product:

This information is not available.

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

No aspiration toxicity classification

Phenol, isopropylated, phosphate (3:1):

No aspiration toxicity classification

triphenyl phosphate:

No aspiration toxicity classification

residual oils (petroleum), hydrotreated:

No aspiration toxicity classification

Further information

Product:

Remarks

: Information given is based on data on the components and

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the toxicology of similar products.

SECTION 12: Ecological information

12.1 Toxicity

<u>Product:</u> Toxicity to fish	:	Remarks: Toxic 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
Components:		
reaction product of dipheny amine (1:1.58:0.32:0.097):	Imo	ethanediisocyanate, octylamine, oleylamine and cyclohexyl-
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Toxicity to microorganisms	:	EC50 (activated sludge): > 1.000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 GLP: yes

Phenol, isopropylated, phosphate (3:1):

Toxicity to fish	:	LC50 (Onc	orhynchus	mykiss	(rainbow	trout)): 1,6 mg/l
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			Exposure time: 96 h Test Type: static test Remarks: Information given is itself.	based on tests on the mixture
	city to daphnia and other atic invertebrates	r :	EC50 (Daphnia magna (Water Exposure time: 48 h Test Type: semi-static test Remarks: Information given is itself.	
Toxic plant	city to algae/aquatic ts	:	EC50 (Pseudokirchneriella sul mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline GLP: yes Remarks: Information given is itself.	201
Toxic icity)	city to fish (Chronic tox-	:	NOEC: 0,0031 mg/l Exposure time: 33 d Species: Pimephales promelas Method: OECD Test Guideline	s (fathead minnow) 210
aqua	city to daphnia and other atic invertebrates (Chron- kicity)		NOEC: 0,0415 mg/l Exposure time: 21 d Species: Daphnia magna (Wa Method: OECD Test Guideline	
M-Fa toxic	actor (Chronic aquatic ity)	:	10	
(
-	nenyl phosphate: city to fish	:	LC50 (Oncorhynchus mykiss (Exposure time: 96 h	rainbow trout)): 0,4 mg/l
	city to daphnia and other atic invertebrates	r :	EC50 (Daphnia magna (Water Exposure time: 48 h Test Type: static test	⁻ flea)): 0,36 mg/l
Toxic plant	city to algae/aquatic ts	:	NOEC (Pseudokirchneriella su mg/l Exposure time: 96 h Method: OECD Test Guideline	ubcapitata (green algae)): 0,25 e 201
			EL10 (Pseudokirchneriella sub mg/l Exposure time: 96 h Method: OECD Test Guideline	
M-Fa	actor (Acute aquatic tox-	:	1	



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icity)				
Toxic	ity to microorganisms	:	NOEC (activated sludge): 100 mg/ Exposure time: 28 h	1
Toxic icity)	ity to fish (Chronic tox-	:	NOEC: 0,037 mg/l Exposure time: 30 d Species: Oncorhynchus mykiss (ra	ainbow trout)
	ity to daphnia and other tic invertebrates (Chron- icity)		NOEC: 0,254 mg/l Exposure time: 21 d Species: Daphnia magna (Water fl Method: OECD Test Guideline 212	
M-Factoria	ctor (Chronic aquatic ty)	:	1	
resid	ual oils (petroleum), h	ydro	treated:	
Toxic	ity to fish	:	LC50 (Pimephales promelas (fathe Exposure time: 96 h Test Type: static test	ead minnow)): > 100 mg/l
	ity to daphnia and other iic invertebrates	• :	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: Immobilization	a)): > 10.000 mg/l
.2 Persi	istence and degradabi	lity		
Prod				
Biode	egradability	:	Remarks: No data available	
Physi ity	co-chemical removabil-	:	Remarks: No data available	
<u>Com</u>	ponents:			
	ion product of diphen; e (1:1.58:0.32:0.097):	ylme	thanediisocyanate, octylamine, c	pleylamine and cyclohexy
	gradability	:	Test Type: aerobic Inoculum: activated sludge Result: Not readily biodegradable. Biodegradation: 23,9 % Exposure time: 28 d Method: OECD Test Guideline 307 GLP: yes	
	ol, isopropylated, pho	spha	ate (3:1):	
Biode	egradability	:	Result: Not rapidly biodegradable Biodegradation: 17,9 % Exposure time: 28 d	
			20 / 27	a brand of



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			Method: OECD Test Guideline 301 GLP: yes	D
Cond	densation products	of fatty	acids, tall oil with 2-amino-2-ethy	Ipropanediol:
Biode	egradability	:	Result: Not rapidly biodegradable	
triph	enyl phosphate:			
Biode	egradability	:	Test Type: aerobic Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: 83 - 94 % Exposure time: 28 d Method: OECD Test Guideline 3010	с
resid	lual oils (petroleum)	, hydro	treated:	
Biode	egradability	:	Result: Not rapidly biodegradable	
2.3 Bioa	ccumulative potent	ial		
Prod	luct:			
Bioad	ccumulation	:	Remarks: This mixture contains no be persistent, bioaccumulating and This mixture contains no substance persistent and very bioaccumulating	toxic (PBT). considered to be very
<u>Com</u>	ponents:			
	tion product of diph e (1:1.58:0.32:0.097		thanediisocyanate, octylamine, ol	leylamine and cyclohexyl
	tion coefficient: n- nol/water	:	log Pow: > 6 (20 °C) Method: OECD Test Guideline 117	
Pher	ol, isopropylated, p	hospha	ate (3:1):	
	tion coefficient: n- nol/water	:	log Pow: 4,92 - 5,17 (25 °C)	
Cond	densation products	of fatty	acids, tall oil with 2-amino-2-ethy	Ipropanediol:
Bioad	ccumulation	:	Bioconcentration factor (BCF): < 10	00
	tion coefficient: n- nol/water	:	log Pow: 9,01	
triph	enyl phosphate:			
Bioad	ccumulation	:	Species: Oryzias latipes (Orange-re Exposure time: 18 d Concentration: 0,01 mg/l Bioconcentration factor (BCF): 144	ed killifish)
				a brand of



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	on coefficient: n- ol/water	:	log Pow: 4,6 (20 °C)	
12.4 Mobil	lity in soil			
Produ	<u>ict:</u>			
Mobili	ty	:	Remarks: No data available	
	oution among environ- al compartments	:	Remarks: No data available	
12.5 Resu	Its of PBT and vPvB	asse	ssment	
<u>Produ</u>	<u>ict:</u>			
Asses	sment	:	This substance/mixture contains no to be either persistent, bioaccumula very persistent and very bioaccumu 0.1% or higher	ative and toxic (PBT), or
Comp	oonents:			
Pheno	ol, isopropylated, pho	osph	ate (3:1):	
Asses	sment	:	Non-classified PBT substance. Non stance.	n-classified vPvB sub-
12.6 Endo	crine disrupting prop	pertie	25	
<u>Produ</u>	<u>ict:</u>			
Asses	sment	:	The substance/mixture does not co ered to have endocrine disrupting p REACH Article 57(f) or Commissio (EU) 2017/2100 or Commission Re levels of 0.1% or higher.	properties according to n Delegated regulation
12.7 Other	adverse effects			
<u>Produ</u>	<u>ict:</u>			
Additional ecological infor- mation		:	Toxic to aquatic life with long lastin	g 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.



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			Dispose of as hazardous waste in complent national regulations.	iance with local and
			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 sug	gestions:
Was	Waste Code		used product, unused product 12 01 12*, spent waxes and fats	
			uncleaned packagings 15 01 10, packaging containing residues by hazardous substances	of or contaminated

SECTION 14: Transport information

14.1 UN number or ID number		
ADR	:	UN 3077
RID	:	UN 3077
IMDG	:	UN 3077
ΙΑΤΑ	:	UN 3077
14.2 UN proper shipping name		
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triaryl Phosphate Isopropylated, triphenyl phosphate)
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triaryl Phosphate Isopropylated, triphenyl phosphate)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triaryl Phosphate Isopropylated, triphenyl phosphate)
ΙΑΤΑ	:	Environmentally hazardous substance, solid, n.o.s. (Triaryl Phosphate Isopropylated, triphenyl phosphate)
14.3 Transport hazard class(es)		
ADR	:	9
RID	:	9
IMDG	:	9



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ΙΑΤΑ		: 9	
14.4 Pack	ing group		
ADR			
	ng group	: 111	
	ification Code	: M7	
Haza Label	rd Identification Number	: 90 : 9	
	3	. 9	
RID Packi	ng group	: 111	
	ification Code	: M7	
	rd Identification Number		
Label	S	: 9	
IMDG			
Packi Label	ng group	: III : 9	
EmS		. 9 : F-A, S-F	
	(Cargo)		
	ng instruction (cargo	: 956	
aircra	ft)		
	ng instruction (LQ)	: Y956	
Packi Label	ng group	: III : Miscellaneous	
		. Miscellaneous	
	(Passenger) ng instruction (passen-	: 956	
	rcraft)	. 950	
	ng instruction (LQ)	: Y956	
	ng group	: 111	
Label		: Miscellaneous	
14.5 Envii	onmental hazards		
ADR			
Envir	onmentally hazardous	: yes	
RID			
Envir	onmentally hazardous	: yes	
IMDG	ì		
Marin	e pollutant	: yes	
ΙΑΤΑ	(Passenger)		
Envir	onmentally hazardous	: yes	
ΙΑΤΑ	(Cargo)		
	onmentally hazardous	: yes	
14.6 Spec	ial precautions for use	er	

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.



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14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation ture	on	specific for the substance or mix-
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC)	:	This product does not contain sub- stances of very high concern (Regu- lation (EC) No 1907/2006 (REACH), Article 57).
REACH - List of substances subject to authorisation (Annex XIV) (EU. REACH - Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer (EC 1005/2009)	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast) (EU POP)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals (EU PIC)	:	Not applicable
Seveso III: Directive 2012/18/EU of the European : E2 Parliament and of the Council on the control of major-accident hazards involving dangerous sub- stances.		ENVIRONMENTAL HAZARDS
emissions (integrated po	ollu	4 November 2010 on industrial ution prevention and control) Is (VOC) content: 2,18 %

15.2 Chemical safety assessment

This information is not available.



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SECTION 16: Other information

Full text of H-Statements

I un text of II-Statements		
H317	:	May cause an allergic skin reaction.
H361	:	Suspected of damaging fertility or the unborn child.
H373	:	May cause damage to organs through prolonged or repeated exposure if swallowed.
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.
H413	:	May cause long lasting harmful effects to aquatic life.
Full text of other abbreviat	ions	

Note L The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO 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. This note applies only to certain complex oil-derived substances in Part 3. FI OEL Finland. HTP Values - Concentrations Known to be Harmful FI OEL / HTP-arvot 8h Long term exposure limit 2 FI OEL / HTP-arvot 15 min Short term exposure limit 5

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road: AIIC - Australian Inventory of Industrial Chemicals: ASTM - American Society for the Testing of Materials; by - 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 sub-



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stance; 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; TRGS -Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixtur	e:	Classification procedure:
Aquatic Chronic 2	H411	Calculation method

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