according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 2021-09-08	Print Date: 2021-
3.6	2021-10-11	Date of first issue: 2015-07-28	10-11

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

1.1 Pro	oduct identifier		
P	roduct name	:	PETAMO GHY 133 N (H)
A	rticle-No.	:	094148
1.2 Re	elevant identified uses of th	e s	ubstance or mixture and uses advised against
	se of the Sub- ance/Mixture	:	Grease
	ecommended restrictions n use	:	Restricted to professional users.
1.3 De	tails of the supplier of the	saf	ety data sheet
С	ompany	:	Klüber Lubrication München Geisenhausenerstr. 7 81379 München Deutschland Tel: +49 (0) 89 7876 0 Fax: +49 (0) 89 7876 333 info@klueber.com
	-mail address of person esponsible for the SDS	:	mcm@klueber.com Material Compliance Management
Ν	ational contact	:	Klüber Lubrication Nordic A/S Vasagatan 36 111 20 Stockholm Sweden Tel: +46 8 59098600 Fax: +46 8 59098601 klueber.se@se.klueber.com
1.4 En	nergency telephone numbe	ər	
	mergency telephone num-	:	112 - ask for poison information
De	5 1		+49 89 7876 700 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 2021-09-08	Print Date: 2021-
3.6	2021-10-11	Date of first issue: 2015-07-28	10-11

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)						
Hazard pictograms :	¥.					
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

Components

Chemical name	CAS-No. EC-No.	Classification	specific concen- tration limit M-Factor	Concentration (% w/w)
	Index-No. Registration number		Notes Acute toxicity	



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	
3.6	

Revision Date: 2021-10-11

Date of last issue: 2021-09-08 Date of first issue: 2015-07-28 Print Date: 2021-10-11

			estimate	
reaction product of diphenylme- thanediisocyanate, octylamine, oleyla- mine and cyclohexyl- amine (1:1.58:0.32:0.097)	430-980-9 01-0000017722-71- 0001 01-0000017722-71- 0002 01-0000017722-71- 0000	Aquatic Chronic4; H413		>= 2,5 - < 10
Phenol, isopropylated, phosphate (3:1)	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
Condensation prod- ucts of fatty acids, tall oil with 2-amino-2- ethylpropanediol	946-010-7 01-2120770934-44- XXXX	Skin Sens.1; H317		>= 0,1 - < 1
triphenyl phosphate	115-86-6 204-112-2	Aquatic Acute1; H400 Aquatic Chronic2; H411	M-Factor: 1/1	>= 0,25 - < 1
Substances with a work	place exposure limit :			
residual oils (petrole- um), hydrotreated	64742-57-0 265-160-8 649-470-00-4 01-2119489287-22- XXXX	Not classified	Note L	>= 50 - < 70

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. Keep patient warm and at rest.



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

PETAMO	O GHY 133 N (H)				
Version 3.6	Revision Date: 2021-10-11		e of last issue: 2021-09-08 e of first issue: 2015-07-28	Print Date: 2021- 10-11	
			If unconscious, place in recovery po advice. Keep respiratory tract clear. If breathing is irregular or stopped, tion.		
In cas	se of skin contact	:	Take off all contaminated clothing in Get medical attention immediately in persists. Wash clothing before reuse. Thoroughly clean shoes before reuse Wash off immediately with plenty of	f irritation develops and se.	
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.		
lf swa	illowed	:	Move the victim to fresh air. If unconscious, place in recovery po advice. Keep respiratory tract clear. Do not induce vomiting without med Obtain medical attention. Never give anything by mouth to an	dical advice.	
4.2 Most i	mportant symptoms a	and	effects, both acute and delayed		
Symp	toms	:	Allergic appearance		
Risks		:	May cause an allergic skin reaction		
4.3 Indica	tion of any immediate	me	dical attention and special treatme	nt needed	
Treat	ment	:	The first aid procedure should be early with the doctor responsible for indu-		
SECTION	1 5: Firefighting mea	asur	es		
5.1 Exting	uishing media				
-	ble extinguishing media	:	Use water spray, alcohol-resistant f bon dioxide.	oam, dry chemical or car-	
Unsui media	itable extinguishing a	:	High volume water jet		

5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod-	:	Carbon oxides
ucts		Nitrogen oxides (NOx)
		Sulphur oxides
		Oxides of phosphorus



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version 3.6	Revision Date: 2021-10-11		e of last issue: 2021-09-08 e of first issue: 2015-07-28	Print Date: 2021- 10-11
5.3 Advice	e for firefighters			
	al protective equipmer efighters	nt :	In the event of fire, wear self-containe Use personal protective equipment. E tion products may be a hazard to hea	xposure to decomposi-
Furthe	er information	:	Standard procedure for chemical fires Collect contaminated fire extinguishin 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 asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Wash hands and face before breaks and immediately after handling the product. Do not get in eyes or mouth or on skin. Do not get on skin or clothing.
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according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version 3.6	Revision Date: 2021-10-11		te of last issue: 2021-09-08 te of first issue: 2015-07-28	Print Date: 2021- 10-11
			Do not ingest. Do not repack. These safety instructions also apply to e may still contain product residues. Keep container closed when not in use.	mpty packaging which
Hygiene measures :		:	Wash face, hands and any exposed skir handling.	thoroughly after
7.2 Condit	ions for safe storage	e, inc	luding any incompatibilities	
	Requirements for storage areas and containers Store in original container. Keep container use. Keep in a dry, cool and well-ventilat which are opened must be carefully rese to prevent leakage. Store in accordance national regulations. Keep in properly lab		ted place. Containers ealed and kept upright with the particular	
-	ic end use(s) fic use(s)	:	Specific instructions for handling, not rec	quired.

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	NGV (Mist)	1 mg/m3	SE AFS (2018-02-19)	
		KGV (Mist)	3 mg/m3	SE AFS (2018-02-19)	
	Further information: Indicative short term limit value shall be used as a rec- ommended maximum value and should not be exceeded				

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- fects	5,6 mg/m3
	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,	Workers	Inhalation	Long-term systemic	0,145 mg/m3



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:
3.6	2021-10-11

Date of last issue: 2021-09-08 Date of first issue: 2015-07-28 Print Date: 2021-10-11

phosphate (3:1)	1		effects	
	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.)
	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

Eye protection

: Safety glasses with side-shields



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version 3.6	Revision Date: 2021-10-11	Date of last issue: 2021-09-08 Date of first issue: 2015-07-28	Print Date: 2021- 10-11
M Br	l protection aterial reak through time rotective index	 Nitrile rubber > 10 min Class 1 	
R	emarks	 Wear protective gloves. The breat amongst other things on the mat type of glove and therefore has case. The selected protective gloves has tions of Regulation (EU) 2016/4. 	terial, the thickness and the to be measured for each nave to satisfy the specifica-
Resp	iratory protection	: Not required; except in case of a	aerosol formation.
Fi	lter type	: Filter type P	
Prote	ctive measures	: The type of protective equipment to the concentration and amoun at the specific workplace. Choose body protection in relati tration and amount of dangerous cific work-place.	t of the dangerous substance on to its type, to the concen-

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
Flammability	:	Combustible Solids
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version 3.6	Revision Date: 2021-10-11		of last issue: 2021-09-08 of first issue: 2015-07-28	Print Date: 2021- 10-11
Flash p	point	:	Not applicable	
Auto-ig	nition temperature	:	No data available	
	position temperature omposition tempera-	:	No data available	
рН		:	Not applicable	
Viscosi				
Visc	cosity, dynamic	•	No data available	
Visc	cosity, kinematic	:	Not applicable	
Solubili Wat	ty(ies) er solubility	:	insoluble	
Solu	ubility in other solvents	5 :	No data available	
Partitio octanol	n coefficient: n- /water	:	No data available	
Vapour	pressure	:	< 0,001 hPa (20 °C)	
Relativ	e density	:	0,900 (20 °C) Reference substance: Water The value is calculated	
Density	/	:	0,90 g/cm3 (20 °C)	
Bulk de	ensity	:	No data available	
Relativ	e vapour density	:	No data available	
9.2 Other in	formation			
Explosi	ves	:	Not explosive	
Oxidizi	ng properties	:	No data available	
Self-igr	nition	:	No data available	
Evapor	ation rate	:	No data available	
Sublim	ation point	:	No data available	



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version 3.6	Revision Date: 2021-10-11	Date of last issu Date of first issu	Print Date: 2021- 10-11	
SECTION	N 10: Stability and	reactivity		
10.1 Read	ctivity			
	azards to be specially	mentioned.		
	nical stability e under normal condi	ions.		
	sibility of hazardous rdous reactions		rous reaction known ur	nder 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 Assessment: The substance or mixture has no acute oral tox- icity
Acute dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Versior 3.6	Revision Date: 2021-10-11		e of last issue: 2021-09-08 e of first issue: 2015-07-28	Print Date: 2021- 10-11
Ph	enol, isopropylated, pho	osph	ate (3:1):	
Ac	ute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg	
Ac	ute inhalation toxicity	:	LC50 (Rat): > 200 mg/l Exposure time: 1 h Test atmosphere: dust/mist	
Ac	ute dermal toxicity	:	LD50 (Rabbit): > 10.000 mg/kg GLP: no	
Co	ondensation products of	fatty	v acids, tall oil with 2-amino-2-ethylprop	panediol:
Ac	ute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 425 Assessment: The substance or mixture I icity	nas no acute oral tox-
Ac	ute dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture I toxicity	nas no acute dermal
tri	phenyl phosphate:			
Ac	ute oral toxicity	:	LD50 (Rat): > 20.000 mg/kg Method: OECD Test Guideline 401	
Ac	ute inhalation toxicity	:	LC50 (Rat): > 200 mg/l Exposure time: 1 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture l tion toxicity	nas no acute inhala-
Ac	ute dermal toxicity	:	LD50 (Rabbit): > 10.000 mg/kg Method: OECD Test Guideline 402	
re	sidual oils (petroleum), h	nydro	otreated:	
	ute oral toxicity	:		
Ac	ute dermal toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 402	
Sk	in corrosion/irritation			
	oduct: emarks	:	This information is not available.	



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 2021-09-08	Print Date: 2021-
3.6	2021-10-11	Date of first issue: 2015-07-28	10-11

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:

:	Rabbit
:	No skin irritation
:	OECD Test Guideline 404
:	No skin irritation
	:

Serious eye damage/eye 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 eye irritation
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
GLP	:	yes



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 2021-09-08	Print Date: 2021-
3.6	2021-10-11	Date of first issue: 2015-07-28	10-11

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

Phenol, isopropylated, phosphate (3:1):

:	Mouse
:	Did not cause sensitisation on laboratory animals.
:	OECD Test Guideline 429
:	Did not cause sensitisation on laboratory animals.
:	yes



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 2021-09-08	Print Date: 2021-
3.6	2021-10-11	Date of first issue: 2015-07-28	10-11

Assessment Result	:	May cause sensitisation by skin contact. May cause sensitisation by skin contact.
triphenyl phosphate:		
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 406
Result GLP	:	Does not cause skin sensitisation. yes
residual oils (petroleum), hy	ydro	otreated:
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
Assessment	:	Does not cause respiratory sensitisation.
Result	:	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 dipheny amine (1:1.58:0.32:0.097):	/lme	ethanediisocyanate, octylamine, oleylamine and cyclohexy
Genotoxicity in vitro	:	Test Type: Ames test
\$		Test system: Salmonella typhimurium
		Method: OECD Test Guideline 471
		Result: negative
		Test Type: Chromosome aberration test in vitro
		Test system: Chinese hamster cells
		Method: OECD Test Guideline 473 Result: negative
		Ŭ
Germ cell mutagenicity- As- sessment	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

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

Genotoxicity in vitro	:	Remarks: In vitro tests did not show mutagenic effects
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according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

ersion S	Revision Date: 2021-10-11		e of last issue: 2021-09-08 e of first issue: 2015-07-28	Print Date: 2021- 10-11
triphe	enyl phosphate:			
Geno	toxicity in vitro	:	Test Type: reverse mutation assay Test system: Salmonella typhimuriu Metabolic activation: with and withou Method: OECD Test Guideline 471 Result: negative	
Germ sessn	cell mutagenicity- As- nent	:	Tests on bacterial or mammalian ce mutagenic effects.	Il cultures did not show
Carci	nogenicity			
Produ	uct:			
Rema	arks	:	No data available	
<u>Com</u>	oonents:			
triphe	enyl phosphate:			
Carcir ment	nogenicity - Assess-	:	No evidence of carcinogenicity in an	nimal studies.
resid	ual oils (petroleum), ł	nydro	otreated:	
Carcir ment	nogenicity - Assess-	:	Not classifiable as a human carcino	gen.
Repro	oductive toxicity			
<u>Produ</u>	uct:			
Effect	s on fertility	:	Remarks: No data available	
Effect ment	s on foetal develop-	:	Remarks: No data available	
<u>Comp</u>	oonents:			
Phen	ol, isopropylated, pho	osph	ate (3:1):	
•	oductive toxicity - As-	:	- Fertility -	
sessn	nent		Some evidence of adverse effects of fertility, and/or on development, bas - Teratogenicity -	
			Some evidence of adverse effects of fertility, and/or on development, bas	
Cond	ensation products of	fatty	acids, tall oil with 2-amino-2-ethyl	propanediol:
	oductive toxicity - As-	:	- Fertility -	
sessn	lient		Animal testing did not show any effe	ects on fertility.
				a brand of



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 2021-09-08	Print Date: 2021-
3.6	2021-10-11	Date of first issue: 2015-07-28	10-11

triphenyl phosphate:

Effects on foetal develop- ment	:	Species: Rabbit Application Route: Oral General Toxicity Maternal: NOAEL: >= 200 mg/kg body weight Teratogenicity: NOAEL: >= 200 mg/kg body weight Developmental Toxicity: NOAEL: >= 200 mg/kg body weight Embryo-foetal toxicity: NOAEL: >= 200 mg/kg body weight Method: OECD Test Guideline 414 Result: No effects on fertility and early embryonic develop- ment were detected.
Reproductive toxicity - As-	:	- Fertility -
sessment		No toxicity to reproduction - Teratogenicity -
		No effects on or via lactation

STOT - single exposure

Components:

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

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Components:

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

Assessment	:	The substance or mixture is not classified as specific target
		organ toxicant, repeated exposure.

Phenol, isopropylated, phosphate (3:1):

Exposure routes	:	Ingestion
Target Organs	:	ovaries, Testes, Liver, Adrenal gland
Assessment	:	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Repeated dose toxicity

Product:

Remarks : This information is not available.



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 2021-09-08	Print Date: 2021-
3.6	2021-10-11	Date of first issue: 2015-07-28	10-11

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 the toxicology of similar products.



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 2021-09-08	Print Date: 2021-
3.6	2021-10-11	Date of first issue: 2015-07-28	10-11

SECTION 12: Ecological information

12.1 Toxicity

Product:	
-	C . I

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

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 (Oncorhynchus mykiss (rainbow trout)): 1,6 mg/l Exposure time: 96 h Test Type: static test Remarks: Information given is based on tests on the mixture itself.
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according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version 3.6	Revision Date: 2021-10-11		e of last issue: 2021-09-08 e of first issue: 2015-07-28	Print Date: 2021- 10-11
	kicity to daphnia and other Jatic invertebrates	r :	EC50 (Daphnia magna (Water flea) Exposure time: 48 h Test Type: semi-static test Remarks: Information given is base itself.	
	kicity to algae/aquatic nts	:	EC50 (Pseudokirchneriella subcapit mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes Remarks: Information given is base itself.	
To: icit	kicity to fish (Chronic tox- y)	:	NOEC: 0,0031 mg/l Exposure time: 33 d Species: Pimephales promelas (fath Method: OECD Test Guideline 210	nead minnow)
aqı	kicity to daphnia and other uatic invertebrates (Chron- oxicity)		NOEC: 0,0415 mg/l Exposure time: 21 d Species: Daphnia magna (Water fle Method: OECD Test Guideline 211	ea)
	Factor (Chronic aquatic icity)	:	10	
trin	ohenyl phosphate:			
-	kicity to fish	:	LC50 (Oncorhynchus mykiss (rainbe Exposure time: 96 h	ow trout)): 0,4 mg/l
	kicity to daphnia and other uatic invertebrates	r:	EC50 (Daphnia magna (Water flea) Exposure time: 48 h Test Type: static test): 0,36 mg/l
	kicity to algae/aquatic nts	:	NOEC (Pseudokirchneriella subcap mg/l Exposure time: 96 h Method: OECD Test Guideline 201	itata (green algae)): 0,25
			EL10 (Pseudokirchneriella subcapit mg/l Exposure time: 96 h Method: OECD Test Guideline 201	ata (green algae)): 0,25
M-I icit	Factor (Acute aquatic tox- y)	:	1	
To	kicity to microorganisms	:	NOEC (activated sludge): 100 mg/l Exposure time: 28 h	



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version 3.6			e of last issue: 2021-09-08 e of first issue: 2015-07-28	Print Date: 2021- 10-11
Toxic icity)	ity to fish (Chronic tox-	:	NOEC: 0,037 mg/l Exposure time: 30 d Species: Oncorhynchus mykiss (rain	bow trout)
	ity to daphnia and other tic invertebrates (Chron- icity)		NOEC: 0,254 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea Method: OECD Test Guideline 211	a)
M-Fa toxicit	ctor (Chronic aquatic ty)	:	1	
resid	ual oils (petroleum), h	vdro	treated:	
	ity to fish	-	LC50 (Pimephales promelas (fathea Exposure time: 96 h Test Type: static test	d minnow)): > 100 mg/l
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia magna (Water flea)) Exposure time: 48 h Test Type: Immobilization	: > 10.000 mg/l
12.2 Persi	istence and degradabi	lity		
Produ	uct:			
Biode	egradability	:	Remarks: No data available	
Physi ity	co-chemical removabil-	:	Remarks: No data available	
Com	ponents:			
	ion product of dipheny e (1:1.58:0.32:0.097):	/lme	thanediisocyanate, octylamine, ole	eylamine and cyclohexy
	gradability	:	Test Type: aerobic Inoculum: activated sludge Result: Not readily biodegradable. Biodegradation: 23,9 % Exposure time: 28 d Method: OECD Test Guideline 301F GLP: yes	
Phen	ol, isopropylated, pho	spha	ate (3:1):	
Biode	gradability	:	Result: Not rapidly biodegradable Biodegradation: 17,9 % Exposure time: 28 d Method: OECD Test Guideline 301D GLP: yes)

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



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

/ersion 5.6	Revision Date: 2021-10-11		e of last issue: 2021-09-08 e of first issue: 2015-07-28	Print Date: 2021- 10-11
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	ual oils (petroleum)	, hydro	streated:	
Biode	egradability	:	Result: Not rapidly biodegradable	
2.3 Bioa	ccumulative potent	ial		
<u>Prod</u>	<u>uct:</u>			
Bioac	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:			
	ion product of diph e (1:1.58:0.32:0.097		ethanediisocyanate, octylamine, ol	eylamine and cyclohexy
	ion coefficient: n- ol/water	:	log Pow: > 6 (20 °C) Method: OECD Test Guideline 117	
Phen	ol, isopropylated, p	hospha	ate (3:1):	
	ion coefficient: n- ol/water	:	log Pow: 4,92 - 5,17 (25 °C)	
Conc	lensation products	of fatty	acids, tall oil with 2-amino-2-ethy	Ipropanediol:
Bioad	cumulation	:	Bioconcentration factor (BCF): < 10	00
	ion coefficient: n- ol/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)
–	ion coefficient: n-		log Pow: 4,6 (20 °C)	



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 2021-09-08	Print Date: 2021-
3.6	2021-10-11	Date of first issue: 2015-07-28	10-11

12.4 Mobility in soil

Product:		
Mobility	: Remarks: No data available	
Distribution among environ- mental compartments	: Remarks: No data available	

:

12.5 Results of PBT and vPvB assessment

Ρ	r	0	d	u	С	t	

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..

Components:

Phenol, isopropylated, phosphate (3:1):

Assessment

Non-classified PBT substance. Non-classified vPvB substance.

12.6 Endocrine disrupting properties

Product:

Assessment : 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.

12.7 Other adverse effects

Product:

Additional ecological infor-	:	Toxic to aquatic life with long lasting effects.
mation		

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.



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version 3.6	Revision Date: 2021-10-11		e of last issue: 2021-09-08 e of first issue: 2015-07-28	Print Date: 2021- 10-11
Conta	aminated packaging	:	Packaging that is not properly emptied the unused product. Dispose of waste product or used conta local regulations.	
			The following Waste Codes are only su	iggestions:
Wast	e Code	:	used product, unused product 12 01 12*, spent waxes and fats	
			uncleaned packagings 15 01 10, packaging containing residue by hazardous substances	es 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
ΙΑΤΑ	:	9
14.4 Packing group		
ADR		



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

	Dall	e of first issue: 2015-07-28	10-11
d Identification Number	:	III M7 90 9	
fication Code d Identification Number	:	III M7 90 9	
ng group S	:	III 9 F-A, S-F	
ng instruction (cargo it) ng instruction (LQ) ng group	:	956 Y956 III Miscellaneous	
ng instruction (passen- rcraft) ng instruction (LQ) ng group	:	956 Y956 III Miscellaneous	
onmental hazards			
onmentally hazardous	:	yes	
onmentally hazardous	:	yes	
	ification Code d Identification Number s ang group ification Code d Identification Number d Identification Number s code (Cargo) ng instruction (cargo (t) ng instruction (LQ) ng group s (Passenger) ng instruction (passen- rcraft) ng instruction (LQ) ng group s onmental hazards onmentally hazardous	ification Code : : : : : : : : : : : : : : : : : : :	<pre>trication Code : M7 d Identification Number : 90 s : 9 ng group : III fication Code : M7 d Identification Number : 90 s : 9 ng group : III s : 9 Code : F-A, S-F (Cargo) ng instruction (cargo : 956 ft) ng instruction (LQ) : Y956 ng group : III s : Miscellaneous (Passenger) ng instruction (LQ) : Y956 ng group : III s : Miscellaneous (Passenger) ng instruction (LQ) : Y956 ng group : III s : Miscellaneous onmentally hazardous : yes e pollutant : yes (Cargo) intervention (intervention (intervention</pre>

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.

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 2021-09-08	Print Date: 2021-
3.6	2021-10-11	Date of first issue: 2015-07-28	10-11

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture REACH - Restrictions on the manufacture, placing on : Not applicable

	REACH - Restrictions on the man the market and use of certain dan preparations and articles (Annex 2	ngerous substances,	:	Not applicable	
	REACH - Candidate List of Subst Concern for Authorisation (Article (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 subje (Annex XIV) (EU. REACH - Annex XIV)	ect to authorisation	:	Not applicable	
	Regulation (EC) No 1005/2009 or plete the ozone layer (EC 1005/2009)	n substances that de-	:	Not applicable	
	Regulation (EU) 2019/1021 on per tants (recast) (EU POP)	ersistent organic pollu-	:	Not applicable	
	Regulation (EC) No 649/2012 of t ment and the Council concerning of dangerous chemicals (EU PIC)		:	Not applicable	
Seveso III: Directive 2012/18/EU of the European : E2 ENVIRONMENTAL HAZARDS Parliament and of the Council on the control of major-accident hazards involving dangerous sub- stances.					
	Volatile organic compounds :	emissions (integrated p	ollu	4 November 2010 on industrial ution prevention and control) ds (VOC) content: 2,18 %	
	Other regulations:				

Hygiene limits (AFS 2018:1), provisions - Occupational Safety and Health Administration's provisions on hygiene limits and general advice on the application of the provisions.

15.2 Chemical safety assessment

This information is not available.



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 2021-09-08	Print Date: 2021-
3.6	2021-10-11	Date of first issue: 2015-07-28	10-11

SECTION 16: Other information

Full text of H-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 abbroviations				

Full text of other abbreviations

Note L	shown that the substance c tract as measured by IP 346 matics in unused lubricating petroleum fractions - Dimet index method", Institute of F	The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO ex- tract as measured by IP 346 "Determination of polycyclic aro- matics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note ap- plies only to certain complex oil-derived substances in Part 3.
SE AFS	:	Sweden. Occupational Exposure Limit Values
SE AFS / NGV	:	Time Weighted Average
SE AFS / KGV	:	Short Term Exposure Limit

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-



according to Regulation (EC) No. 1907/2006 - SE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 2021-09-08	Print Date: 2021-
3.6	2021-10-11	Date of first issue: 2015-07-28	10-11

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 mixture:

Classification of the mixture:Classification procedure:Aquatic Chronic 2H411Calculation method

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