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



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 08.09.2021	Print Date:
3.6	11.10.2021	Date of first issue: 28.07.2015	11.10.2021

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 th	e s	ubstance 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 Belgium Netherlands Rue Cardinal Mercier 100 7711 Dottignies Belgium Tel: +32 56 483333 Fax: +32 56 486252 sales@be.klueber.com
1.4	Emergency telephone numbe	er	
	Emergency telephone num-	:	070 245 245 Antigifcentrum / Centre antipoisons
ber		·· ·· ·· ·· · · · · · · · · · · · · ·	

+49 89 7876 700 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 08.09.2021	Print Date:
3.6	11.10.2021	Date of first issue: 28.07.2015	11.10.2021

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 :		
Hazard statements :	H411	Toxic to aquatic life with long lasting effects.
Precautionary statements :	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.	Classification	specific concen-	Concentration
	EC-No.		tration limit	(% w/w)
			M-Factor	
	Index-No.		Notes	



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



PETAMO GHY 133 N (H)

Version	R
3.6	1

Revision Date: 11.10.2021 Date of last issue: 08.09.2021 Date of first issue: 28.07.2015 Print Date: 11.10.2021

	Registration number		Acute toxicity	
			estimate	
reaction product of diphenylme- thanediisocyanate, octylamine, oleyla-	430-980-9	Aquatic Chronic4; H413		>= 2,5 - < 10
mine and cyclohexyl- amine (1:1.58:0.32:0.097)	01-0000017722-71- 0001 01-0000017722-71- 0002			
	01-0000017722-71- 0000			
Phenol, isopropylated, phosphate (3:1)	68937-41-7 273-066-3	Repr.2; H361 STOT RE2; H373 Aquatic Chronic1;	M-Factor: /10	>= 1 - < 2,5
	01-2119535109-41- XXXX	H410		
Condensation prod- ucts of fatty acids, tall oil with 2-amino-2- ethylpropanediol	946-010-7	Skin Sens.1; H317		>= 0,1 - < 1
	01-2120770934-44- XXXX			
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 :	1	1	
residual oils (petrole- um), hydrotreated	64742-57-0 265-160-8	Not classified		>= 50 - < 70
	649-470-00-4 01-2119489287-22- XXXX		Note L	

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.



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



Versi 3.6	ion	Revision Date: 11.10.2021		e of last issue: 08.09.2021 e of first issue: 28.07.2015	Print Date: 11.10.2021
				Keep patient warm and at rest. If unconscious, place in recovery advice. Keep respiratory tract clear. If breathing is irregular or stopped tion.	
I	In case	e of skin contact	:	Take off all contaminated clothing Get medical attention immediated persists. Wash clothing before reuse. Thoroughly clean shoes before re Wash off immediately with plenty	y if irritation develops and euse.
l	In case	of eye contact	:	Rinse immediately with plenty of for at least 10 minutes. If eye irritation persists, consult a	
If swallowed		:	Move the victim to fresh air. If unconscious, place in recovery advice. Keep respiratory tract clear. Do not induce vomiting without m Obtain medical attention. Never give anything by mouth to	nedical advice.	
4.2 N	lost im	portant symptoms a	nd e	effects, both acute and delayed	
:	Sympto	oms	:	Allergic appearance	
l	Risks		:	May cause an allergic skin reaction	on.
4.3 Ir	ndicati	on of any immediate	med	dical attention and special treatm	nent needed
-	Treatm	ent	:	The first aid procedure should be with the doctor responsible for inc	
SEC	TION	5: Firefighting mea	sur	es	
5.1 E	Extingu	ishing media			
:	Suitabl	e extinguishing media	:	Use water spray, alcohol-resistar bon dioxide.	nt foam, dry chemical or car-
	Unsuita media	able extinguishing	:	High volume water jet	
5.2 S	special	hazards arising fron	n the	substance or mixture	
Hazardous combustion prod- : ucts			Carbon oxides Nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus		



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



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 08.09.2021	Print Date:
3.6	11.10.2021	Date of first issue: 28.07.2015	11.10.2021

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 cor	ntai	nment 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.



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



PETAMO GHY 133 N (H)

		Print Date: 11.10.2021
Do no Do no Do no These may s	t get on skin or clothing. t ingest. t repack. safety instructions also ap till contain product residues	oply to empty packaging which s.
		sed skin thoroughly after
storage, including	any incompatibilities	
s use. k which to pre	Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept uprigh to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.	
: Speci	fic instructions for handling.	. not required.
	Date of firs Date of firs Do no Do no Do no These may s Keep : Wash handli storage : Store rs use. K which to pre- nation	Date of first issue: 28.07.2015 Do not get in eyes or mouth or of Do not get on skin or clothing. Do not ingest. Do not repack. These safety instructions also ap may still contain product residue: Keep container closed when not : Wash face, hands and any export handling. storage, including any incompatibilities rs Store in original container. Keep use. Keep in a dry, cool and well which are opened must be careful to prevent leakage. Store in account of the provent leakage. Store in provide the provent leakage. Store in account of the provent leakage. Store in provide the provent leakage. Store in provide the provent leakage. Store in account of the provent leakage. Store in provide the provent leakage. Store in provide the provent leakage. Store in account of the provent leakage.

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	TLV 8 hr (Mist)	5 mg/m3	BE OEL (2011-11-30)
		TLV 15 min (Mist)	10 mg/m3	BE OEL (2011-11-30)
triphenyl phos- phate	115-86-6	TLV 8 hr	3 mg/m3	BE OEL (2006-03-23)

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	0,4 mg/kg



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



PETAMO GHY 133 N (H)

Version Rev 3.6 11.

Revision Date: 11.10.2021

Date of last issue: 08.09.2021 Date of first issue: 28.07.2015

Print Date: 11.10.2021

			effects	
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.)
	Oral	16,667 mg/kg

8.2 Exposure controls

Engineering measures

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



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



PETAMO GHY 133 N (H)

Version 3.6	Revision Date: 11.10.2021	Date of last issue: 08.09.2021 Date of first issue: 28.07.2015	Print Date: 11.10.2021
Pe	rsonal protective equip	ent	
Eye	e protection	: Safety glasses with side-shiel	lds
	nd protection Material Break through time Protective index	 Nitrile rubber > 10 min Class 1 	
	Remarks	type of glove and therefore ha case. The selected protective glove	material, the thickness and the
Re	spiratory protection	: Not required; except in case of	of aerosol formation.
	Filter type	: Filter type P	
Pro	otective measures	to the concentration and amo at the specific workplace. Choose body protection in rel	nent must be selected according ount of the dangerous substance lation to its type, to the concen- ous substances, and to the spe-

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



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



Vers 3.6	sion	Revision Date: 11.10.2021		of last issue: 08.09.2021 of first issue: 28.07.2015	Print Date: 11.10.2021
		explosion limit / Lower ability limit	· :	No data available	
	Flash p	point	:	Not applicable	
	Auto-ig	nition temperature	:	No data available	
		position temperature composition tempera-	:	No data available	
	рН		:	Not applicable	
	Viscosi Visc	ity cosity, dynamic	:	No data available	
	Viso	cosity, kinematic	:	Not applicable	
	Solubili Wat	ity(ies) ter solubility	:	insoluble	
	Solu	ubility in other solvents	S :	No data available	
	Partitio octano	n coefficient: n- l/water	:	No data available	
	Vapour	rpressure	:	< 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 ir	nformation			
	Explos	ives	:	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 - BE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date: 11.10.2021	Date of last issue: 08.09.2021	Print Date:
3.6		Date of first issue: 28.07.2015	11.10.2021

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.
Tiazaluous teaclions	

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



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



ersion S	Revision Date: 11.10.2021		issue: 08.09.2021 issue: 28.07.2015	Print Date: 11.10.2021
		toxicity		
Phen	ol, isopropylated, p	osphate (3:1)	:	
Acute	e oral toxicity	: LD50 (Rat): > 5.000 mg/kg	
Acute	inhalation toxicity	Exposi	Rat): > 200 mg/l ure time: 1 h mosphere: dust/mist	
Acute	e dermal toxicity	: LD50 (GLP: n	Rabbit): > 10.000 mg/kg o	
Cond	lensation products	of fatty acids,	tall oil with 2-amino-2-et	hylpropanediol:
Acute	e oral toxicity	Method	Rat): > 2.000 mg/kg l: OECD Test Guideline 4 ment: The substance or r	25 nixture has no acute oral to
Acute	e dermal toxicity	Method		02 nixture has no acute derm
triphe	enyl phosphate:			
Acute	e oral toxicity	,	Rat): > 20.000 mg/kg I: OECD Test Guideline 4	01
Acute	inhalation toxicity	Exposit Test at Methoo Assess	Rat): > 200 mg/l ure time: 1 h mosphere: dust/mist d: OECD Test Guideline 4 sment: The substance or r icity	03 nixture has no acute inhala
Acute	e dermal toxicity		Rabbit): > 10.000 mg/kg I: OECD Test Guideline 4	02
resid	ual oils (petroleum)	hydrotreated	:	
Acute	e oral toxicity		Rat): > 5.000 mg/kg I: OECD Test Guideline 4	01
Acute	e dermal toxicity		Rat): > 5.000 mg/kg I: OECD Test Guideline 4	02
Skin	corrosion/irritation			
Prod				
Rema	arks	: This inf	formation is not available.	



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



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 08.09.2021	Print Date:
3.6	11.10.2021	Date of first issue: 28.07.2015	11.10.2021

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

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 - BE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 08.09.2021	Print Date:
3.6	11.10.2021	Date of first issue: 28.07.2015	11.10.2021

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:

Rabbit
No eye irritation
OECD Test Guideline 405
No eye irritation
1

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 - BE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 08.09.2021	Print Date:
3.6	11.10.2021	Date of first issue: 28.07.2015	11.10.2021

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 eils (netroloum) h	vdra	straated
residual oils (petroleum), hy	yurc	
Species Assessment		Guinea pig 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):	/Ime	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
• • • • • • • •		
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
-----------------------	---	--



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



rsion	Revision Date: 11.10.2021		e of last issue: 08.09.2021 e of first issue: 28.07.2015	Print Date: 11.10.2021
-	enyl phosphate:			
Geno	toxicity in vitro	:	Test Type: reverse mutation assa Test system: Salmonella typhimu Metabolic activation: with and wit Method: OECD Test Guideline 47 Result: negative	rium hout metabolic activation
Germ sessn	cell mutagenicity- As- nent	:	Tests on bacterial or mammalian mutagenic effects.	cell cultures did not show
Carci	nogenicity			
Prod	uct:			
Rema	arks	:	No data available	
<u>Com</u>	oonents:			
triphe	enyl phosphate:			
Carcii ment	nogenicity - Assess-	:	No evidence of carcinogenicity in	animal studies.
resid	ual oils (petroleum), ł	nydro	otreated:	
Carcii ment	nogenicity - Assess-	:	Not classifiable as a human carc	nogen.
Repr	oductive toxicity			
Prod	uct:			
Effect	ts on fertility	:	Remarks: No data available	
Effect ment	ts on foetal develop-	:	Remarks: No data available	
<u>Com</u>	oonents:			
Phen	ol, isopropylated, pho	osph	ate (3:1):	
	oductive toxicity - As-	:	- Fertility -	
sessment		Some evidence of adverse effect fertility, and/or on development, b - Teratogenicity -		
			Some evidence of adverse effect fertility, and/or on development, b	
	-	fatty	v acids, tall oil with 2-amino-2-et	hylpropanediol:
Repro sessn	oductive toxicity - As-	:	- Fertility -	
Sessi			Animal testing did not show any e	effects on fertility.
				a brand of



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



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 08.09.2021	Print Date:
3.6	11.10.2021	Date of first issue: 28.07.2015	11.10.2021

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 - BE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 08.09.2021	Print Date:
3.6	11.10.2021	Date of first issue: 28.07.2015	11.10.2021

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 - BE (Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 08.09.2021	Print Date:
3.6	11.10.2021	Date of first issue: 28.07.2015	11.10.2021

SECTION 12: Ecological information

12.1 Toxicity

Product:		
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.
--------------------	---



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



Version 3.6	Revision Date: 11.10.2021		e of last issue: 08.09.2021 e of first issue: 28.07.2015	Print Date: 11.10.2021
	icity to daphnia and other atic invertebrates	r :	EC50 (Daphnia magna (Water f Exposure time: 48 h Test Type: semi-static test Remarks: Information given is b itself.	
Tox plar	icity to algae/aquatic its	:	EC50 (Pseudokirchneriella sub mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline : GLP: yes Remarks: Information given is b itself.	201
Tox icity	icity to fish (Chronic tox-)	:	NOEC: 0,0031 mg/l Exposure time: 33 d Species: Pimephales promelas Method: OECD Test Guideline 2	
aqu	icity to daphnia and other atic invertebrates (Chron xicity)		NOEC: 0,0415 mg/l Exposure time: 21 d Species: Daphnia magna (Wate Method: OECD Test Guideline 2	
M-F toxic	actor (Chronic aquatic city)	:	10	
trip	henyl phosphate:			
-	icity to fish	:	LC50 (Oncorhynchus mykiss (ra Exposure time: 96 h	ainbow trout)): 0,4 mg/l
	icity to daphnia and other atic invertebrates	r :	EC50 (Daphnia magna (Water f Exposure time: 48 h Test Type: static test	flea)): 0,36 mg/l
Tox plar	icity to algae/aquatic its	:	NOEC (Pseudokirchneriella sub mg/l Exposure time: 96 h Method: OECD Test Guideline 3	
			EL10 (Pseudokirchneriella subo mg/l Exposure time: 96 h Method: OECD Test Guideline :	
M-F icity	actor (Acute aquatic tox-)	:	1	
Тох	icity to microorganisms	:	NOEC (activated sludge): 100 r Exposure time: 28 h	ng/l



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



PETAMO GHY 133 N (H)

			e of last issue: 08.09.2021 e of first issue: 28.07.2015	Print Date: 11.10.2021
Toxicity icity)	v to fish (Chronic tox-	:	NOEC: 0,037 mg/l Exposure time: 30 d Species: Oncorhynchus mykiss ((rainbow trout)
	v to daphnia and other invertebrates (Chron- ty)		NOEC: 0,254 mg/l Exposure time: 21 d Species: Daphnia magna (Water Method: OECD Test Guideline 2	
M-Facto toxicity)	or (Chronic aquatic	:	1	
residua	al oils (petroleum), h	vdro	treated:	
Toxicity		-	LC50 (Pimephales promelas (fat Exposure time: 96 h Test Type: static test	head minnow)): > 100 mg/l
	to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water fle Exposure time: 48 h Test Type: Immobilization	ea)): > 10.000 mg/l
2.2 Persist	tence and degradabi	lity		
Produc	<u>:t:</u>			
Biodegr	radability	:	Remarks: No data available	
Physico ity	-chemical removabil-	:	Remarks: No data available	
<u>Compo</u>	onents:			
	n product of dipheny (1:1.58:0.32:0.097):	/Ime	thanediisocyanate, octylamine,	oleylamine and cyclohexyl
	radability	:	Test Type: aerobic Inoculum: activated sludge Result: Not readily biodegradable Biodegradation: 23,9 % Exposure time: 28 d Method: OECD Test Guideline 30 GLP: yes	
Phenol	, isopropylated, pho	spha	ate (3:1):	
Biodegr	radability	:	Result: Not rapidly biodegradable Biodegradation: 17,9 % Exposure time: 28 d Method: OECD Test Guideline 3 GLP: yes	

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



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



Version 3.6	Revision Date: 11.10.2021		e of last issue: 08.09.2021 e of first issue: 28.07.2015	Print Date: 11.10.2021
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 30	1C
resid	ual oils (petroleum)	, hydro	otreated:	
Biode	egradability	:	Result: Not rapidly biodegradable	
12.3 Bioa	ccumulative potenti	ial		
Prod	uct:			
Bioad	ccumulation	:	Remarks: This mixture contains no be persistent, bioaccumulating an This mixture contains no substance persistent and very bioaccumulation	d toxic (PBT). ce considered to be very
Com	ponents:			
	ion product of diph e (1:1.58:0.32:0.097)		ethanediisocyanate, octylamine, o	oleylamine and cyclohexyl
	ion coefficient: n- ol/water	:	log Pow: > 6 (20 °C) Method: OECD Test Guideline 11	7
Phen	ol, isopropylated, p	hosph	ate (3:1):	
	ion coefficient: n- ol/water	:	log Pow: 4,92 - 5,17 (25 °C)	
Conc	lensation products	of fatty	v acids, tall oil with 2-amino-2-eth	ylpropanediol:
Bioad	cumulation	:	Bioconcentration factor (BCF): < 1	100
	ion coefficient: n- ol/water	:	log Pow: 9,01	
triph	enyl phosphate:			
Bioad	cumulation	:	Species: Oryzias latipes (Orange- Exposure time: 18 d Concentration: 0,01 mg/l Bioconcentration factor (BCF): 14	
	ion coefficient: n- ol/water	:	log Pow: 4,6 (20 °C)	



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



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 08.09.2021	Print Date:
3.6	11.10.2021	Date of first issue: 28.07.2015	11.10.2021

12.4 Mobility in soil

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

:

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.

a brand of
FREUDENBERG

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



PETAMO GHY 133 N (H)

Version 3.6	Revision Date: 11.10.2021	Date of last issue: 08.09.2021 Date of first issue: 28.07.2015	Print Date: 11.10.2021
Conta	aminated packaging	: Packaging that is not properly the unused product. Dispose of waste product or u local regulations.	y emptied must be disposed of as used containers according to
Wast	e Code	The following Waste Codes a : used product, unused produc 12 01 12*, spent waxes and f	t
		uncleaned packagings 15 01 10, packaging containir by hazardous substances	ng residues of or contaminated

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 3077
ADR	:	UN 3077
RID	:	UN 3077
IMDG	:	UN 3077
ΙΑΤΑ	:	UN 3077
14.2 UN proper shipping name		
ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Triaryl Phosphate Isopropylated, triphenyl phosphate)
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)		
ADN	:	9
ADR	:	9
RID	:	9



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



Version 3.6			e of last issue: 08.09.2021 e of first issue: 28.07.2015	Print Date: 11.10.2021
IMD	G	:	9	
IAT		:	9	
14.4 Pac	king group			
AD	N			
Pac Clas	king group ssification Code ard Identification Number	:	III M7 90 9	
Clas	king group ssification Code ard Identification Number		III M7 90 9	
Clas	king group ssification Code ard Identification Number	:	III M7 90 9	
Lab	king group	:	III 9 F-A, S-F	
Pac airci Pac	king instruction (LQ) king group		956 Y956 III Miscellaneous	
Pac ger Pac	A (Passenger) king instruction (passen- aircraft) king instruction (LQ) king group	:	956 Y956 III	
Lab	els	:	Miscellaneous	
14.5 Env	vironmental hazards			
ADI Env	N ironmentally hazardous	:	yes	
ADF	-	:	yes	
RID Env	ironmentally hazardous	:	yes	
IMD Mar	G ine pollutant	:	yes	
IAT	A (Passenger) ironmentally hazardous	:	yes	
				a brand of



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



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 08.09.2021	Print Date:
3.6	11.10.2021	Date of first issue: 28.07.2015	11.10.2021

IATA (Cargo)

Environmentally hazardous : yes

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.

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 specific for the substance or mixture

REACH - Restrictions on the market and use of certain dat preparations and articles (Annex	ngerous substances,	:	Not applicable
REACH - Candidate List of Subs Concern for Authorisation (Article (EU SVHC)		:	This product does not contain sub- stances of very high concern (Regu- lation (EC) No 1907/2006 (REACH),
REACH - List of substances subj (Annex XIV) (EU. REACH - Annex XIV)	ect to authorisation	:	Article 57). Not applicable
Regulation (EC) No 1005/2009 o plete the ozone layer (EC 1005/2009)	n substances that de-	:	Not applicable
Regulation (EU) 2019/1021 on po tants (recast) (EU POP)	ersistent organic pollu-	:	Not applicable
Regulation (EC) No 649/2012 of ment and the Council concerning of dangerous chemicals (EU PIC)		:	Not applicable
Seveso III: Directive 2012/18/EU Parliament and of the Council on major-accident hazards involving stances.	the control of		ENVIRONMENTAL HAZARDS
Volatile organic compounds :	emissions (integrated p	ollu	4 November 2010 on industrial ution prevention and control) Is (VOC) content: 2,18 %



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



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 08.09.2021	Print Date:
3.6	11.10.2021	Date of first issue: 28.07.2015	11.10.2021

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

H317 : H361 : H373 :	May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure if swallowed.
H410 :	Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.
H413 :	May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

Note L	:	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.
BE OEL BE OEL / TLV 8 hr	:	Belgium. Occupational exposure limit values Long term exposure limit
BE OEL / TLV 15 min	:	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; 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



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



PETAMO GHY 133 N (H)

Version	Revision Date:	Date of last issue: 08.09.2021	Print Date:
3.6	11.10.2021	Date of first issue: 28.07.2015	11.10.2021

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; 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 procedure:

Calculation method

Aquatic Chronic 2 H411

This safety data sheet applies only to products as originally packed and labelled. The information contained therein may not be reproduced or modified without our express written permission. Any forwarding of this document is only permitted to the extent required by law. Any further, in particular public, dissemination of the safety data sheet (e.g. as a document for download from the Internet) is not permitted without our express written consent. We provide our customers with amended safety data sheets as prescribed by law. The customer is responsible for passing on safety data sheets and any amendments contained therein to its own customers, employees and other users of the product. We provide no guarantee that safety data sheets received by users from third parties are up-to-date. All information and instructions in this safety data sheet have been compiled to the best of our knowledge and are based on the information available to us on the day of publication. The information provided is intended to describe the product in relation to the required safety measures; it is neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and does not justify any contractual legal relationship. The existence of a safety data sheet for a particular jurisdiction does not necessarily mean that import or use within that jurisdiction is legally permitted. If you have any questions, please contact your responsible sales contact or authorized trading partner.

