Safety data sheet according to Regulation (EC) No 1907/2006, Article 31 Version: 12 (replaces version 11)



Printing date 04.04.2024

disrupting properties

Revision: 14.12.2023

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SECTION 1: Identification of	the substance/mixture and of the company/undertaking	
1.1 Product identifier		
 Trade name: CAS Number: EC number: Index number: Registration number: 	PEROXAN BU 3457-61-2 222-389-8 617-007-00-5 01-2119969063-35	
1.2 Relevant identified uses of the	he substance or mixture and uses advised against No further relevant information available.	
· Application of the substance / the mixture	Reaction initiator For industrial use	
• 1.3 Details of the supplier of the • Manufacturer/Supplier:	safety data sheet PERGAN GmbH Hilfsstoffe für industrielle Prozesse Schlavenhorst 71 D-46395 Bocholt Tel: +49 2871 9902-0 Fax: +49 2871 9902-50	
Further information obtainable from:	Qualified person: E-mail: msds@pergan.com	
1.4 Emergency telephone number:	- Tel: +49 2871 9902-0	
SECTION 2: Hazards identifi	cation	
Skin Irrit. 2H315 CausesSkin Sens. 1H317 May cau	may cause a fire. skin irritation. ise an allergic skin reaction. aquatic life with long lasting effects.	
2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 · Hazard pictograms	The substance is classified and labelled according to the CLP regulation.	
o , , ,	GHS02 GHS07 GHS09	
Signal word	Warning	
 Hazard-determining components of labelling: Hazard statements 	tert-butyl alpha,alpha-dimethylbenzyl peroxide H242 Heating may cause a fire. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.	
• Precautionary statements	 P210 Keep away from heat, hot surfaces, sparks, open flames and other smoking. P220 Keep away from dirt, rust, chemicals in particular concentrated acid (e. g. heavy metal compounds and amines). P234 Keep only in original packaging. P264 Wash thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face prote P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P410 Protect from sunlight. P411+P235 Store at temperatures not exceeding +30°C. Keep cool. P420 Store separately. P501 Dispose of contents/container in accordance with local/regional/natregulations. 	ds, alkalis and accelerato
 2.3 Other hazards Results of PBT and vPvB asses 	ssment	
· PBT:	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
 vPvB: Determination of endocrine- disrupting properties 	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. The product does not contain substances with endocrine disrupting properties.	

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(Contd.	of	page	1)
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 3.1 Substances CAS No. Description Identification number(s) 	3457-61-2 tert-butyl alpha,alpha-dimethylbenzyl peroxide	
EC number:	222-389-8	
· Index number:	617-007-00-5	
 Dangerous components: 		
CAS: 3457-61-2 EINECS: 222-389-8 Index number: 617-007-00-5 Reg-No.: 01-2119969063-35	tert-butyl alpha,alpha-dimethylbenzyl peroxide Org. Perox. E, H242; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	90-100%
CAS: 98-83-9 EINECS: 202-705-0 Index number: 601-027-00-6	2-phenylpropene Flam. Liq. 3, H226; Aquatic Chronic 2, H411; Eye Irrit. 2, H319; STOT SE 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥ 25 %	1-2,5%
CAS: 98-86-2 EINECS: 202-708-7 Index number: 606-042-00-1	acetophenone Acute Tox. 4, H302; Eye Irrit. 2, H319	1-2,5%
CAS: 75-91-2 EINECS: 200-915-7 Reg-No.: 01-2119446670-40	tert-butyl hydroperoxide Flam. Liq. 3, H226; Org. Perox. F, H242; Acute Tox. 3, H311; Acute Tox. 2, H330; Muta. 2, H341; Carc. 2, H351; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limits: Eye Dam. 1; H318: C ≥ 1 % Skin Sens. 1; H317: C ≥ 0,1 % STOT SE 3; H335: C ≥ 5 %	0-1%
CAS: 80-43-3 EINECS: 201-279-3 Index number: 617-006-00-X Reg-No.: 01-2119541688-27	bis(a,a-dimethylbenzyl) peroxide Org. Perox. F, H242; Repr. 1B, H360D; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	0,1-1%

SECTION 4: First aid measures

4.1 Description of first aid measures

· General information:



Take care of personal protection for the first aider.

- · After inhalation: · After skin contact:
- · After eye contact: After swallowing: 4.2 Most important symptoms
- and effects, both acute and delayed 4.3 Indication of any immediate
- medical attention and special treatment needed

In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep quiet. Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing. Rinse opened eye for several minutes under running water. If symptoms persist consult doctor.

Under certain fire conditions, traces of other toxic gases cannot be excluded.

No further relevant information available.

No further relevant information available

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 5.2 Special hazards arising from the substance or mixture
- 5.3 Advice for firefighters Protective equipment: Additional information

Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first!

Hydrocarbons, carbondioxide and -monoxid.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.

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	In case of further temperature should be cooled with waterspray from a safe distance.
	Wear breathing apparatus with filter A during decomposition of materials.
	Wear protective equipment. Keep unprotected persons away.
· 6.2 Environmental precautions:	Inform respective authorities in case of seepage into water course or sewage system.
	Do not allow to enter sewers/ surface or ground water.
· 6.3 Methods and material for	
containment and cleaning up:	Ensure adequate ventilation.
	Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before disposal.
	Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations.
6.4 Reference to other sections	See Section 7 for information on safe handling.
	See Section 8 for information on personal protection equipment.
	See Section 13 for disposal information.
	In case of large spillage the environmental authority should be informed.

SECTION 7: Handling and storage

. .	•
· 7.1 Precautions for safe handling	Keep receptacles tightly sealed. Store in cool, dry place in tightly closed receptacles.
	Keep away from heat and direct sunlight.
	Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
	Prevent formation of aerosols.
	Wear suitable respiratory protective device when decanting larger quantities without extractor facilities. Do not refill residue into storage receptacles. Restrict the quantity stored at the work place.
	Use only in well ventilated areas. Before break and at the end of work hands should be thoroughly washed.
	Only use tools made of suitable materials (e. g. polyethylene or stainless steel).
	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy- metal compounds and amines).
	While using do not eat, drink or smoke.
	Avoid shock and friction.
	Do not smoke.
 Information about fire - and 	
explosion protection:	Protect from heat. Prevent impact and friction.
	Fumes can combine with air to form an explosive mixture.
	Wear shoes with conductive soles.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
· 7.2 Conditions for safe storage,	
 Storage: Requirements to be met by 	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
storerooms and receptacles:	Store in a cool location.
-	Store only in the original receptacle.
	Prevent any seepage into the ground. Use only receptacles specifically permitted for this substance/product.
Information about storage in	
one common storage facility:	Do not store or park organic peroxide together with heavy metal compounds and amines. Store away from foodstuffs, drinks and feeding stuffs.
· Further information about	
storage conditions:	Keep container tightly sealed.
	Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.
	Protect from contamination.
	Store in a cool place.
· Recommended storage	Storage in a collecting room is required.
temperature (To maintain	
quality):	+15 +30 °C
· Storage class:	5.2 (Contd. on page 4)
	(Conta. on page 4)

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7.3 Specif	fic end use(s) I	lo further relevant information available.	(Contd. of page
SECTION	8: Expos	ure control	s/personal protection	
	-			
	ol parameter			
-			require monitoring at the workplace:	
	phenylprop			
OEL (Irela			e: 492 mg/m ³ , 100 ppm	
		ong-term valu DELV	e: 246 mg/m³, 50 ppm	
IOELV (El	-		e: 492 mg/m ³ , 100 ppm	
			e: 492 mg/m ³ , 50 ppm	
WFL (Gre		-	e: 491 mg/m³, 100 ppm	
		ong-term valu	e: 246 mg/m ³ , 50 ppm	
98-86-2 ad	cetophenon	-		
OEL (Irela	•		e: 49 mg/m³, 10 ppm	
DNELS	,			
-	atanhanan			
			0.25 mailia huidau (Mariar)	
Dermal			0,35 mg/kg bw/day (Worker)	
			1,23 mg/m3 (Worker)	
	rt-butyl hyd	•		
Dermal	-		0,21 mg/kg bw/day (Worker)	
Inhalative	DNEL Acute		85,2 mg/m3 (Worker)	
	DNEL Acute		28,4 mg/m3 (Worker)	
	DNEL Long	term System	2,2 mg/m3 (Worker)	
	DNEL Long	term Local	0,58 mg/m3 (Worker)	
80-43-3 bi	s(a,a-dimetl	nylbenzyl) pe	roxide	
Oral	DNEL Long	term System	0,4 mg/kg bw/day (General population)	
Dermal	-		0,8 mg/kg bw/day (Worker)	
		,	0,4 mg/kg bw/day (General population)	
Inhalative	DNEL Long	term Svstem	5,6 mg/m3 (Worker)	
			1,4 mg/m3 (General population)	
·PNECs				
-	4 1	-		
	cetophenon			
		d 0,113 mg/k		
PNEC Fre		0,086 mg/l		
PNEC Fre	shwater sed	, 53		
PNEC Soi		0,175 mg/k	g soil dw (-)	
PNEC STI	Р	34,6 mg/l (A	ιF 10)	
PNEC Ma	rinewater	0,009 mg/l	AF 10.000)	
75-91-2 te	rt-butyl hyd	roperoxide		
		d 0,001 mg/k	g sed dw	
PNEC Fre		0,002 mg/l		
PNEC Sea	awater	0 mg/l (AF 10.000)		
		0,		
		-	g soil dw (AF 1.000)	
PNEC STP 0,17 mg/l (<i>i</i>		-		
		nylbenzyl) pe		
PNEC Fre				
		0,00234 mg		
	shwater sed	, 5.5		
PNEC Soi		0,447 mg/k		
PNEC STI		100 mg/l (A		
· Addition	al informati	on:	he lists valid during the making were used as basis.	
~ ~ =	ure controls	6		
8.2 Expos				
	ate enginee			

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dividual protection record	(Contd. of page
General protection measures	res, such as personal protective equipment
lygienic measures:	The usual presentionary measures are to be adhered to when handling chemicals
rygienic measures.	The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed.
	Immediately remove all soiled and contaminated clothing
	Wash hands before breaks and at the end of work.
	Store protective clothing separately.
	Avoid close or long term contact with the skin.
	Avoid contact with the eyes and skin.
	Do not eat, drink, smoke or sniff while working.
	Use skin protection cream for skin protection.
	Be sure to clean skin thoroughly after work and before breaks.
Respiratory protection:	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer
	exposure use self-contained respiratory protective device.
	Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
	Filter A2
land protection	· ·····
and protection	Only use chemical-protective gloves with CE-labelling of category III.
	Selection of the glove material on consideration of the penetration times, rates of diffusion and the
	degradation
	Protective gloves
Material of gloves	
Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of
	quality and varies from manufacturer to manufacturer.
	Butyl rubber, BR
	Fluorocarbon rubber (Viton)
	Nitrile rubber, NBR
	Neoprene
Penetration time of glove	
material	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to
	observed.
Eye/face protection	
	Tightly sealed goggles
Body protection:	
	Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
· Colour:	Light yellow
· Odour:	Aromatic
· Odour threshold:	Not determined.
· Melting point/freezing point:	<15 °C
	Not applicable.
 Boiling point or initial boiling point and boiling range 	Not applicable.
· Flammability	Not applicable.
 Lower and upper explosion limit 	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not determined.
 Decomposition temperature: 	ca. +90 °C (SADT)
· pH	Not determined.
· Viscosity:	
 Kinematic viscosity 	Not determined.
· Dynamic at 20 °C:	4 mPas
· Solubility	
· water:	Undetermined.
 Partition coefficient n-octanol/water (log value) 	not determined
· Vapour pressure:	Not determined.
Density and/or relative density	
· Density at 20 °C:	0,94 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
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	(Contd. of page
9.2 Other information	
· Appearance:	
Form:	Fluid
· Important information on protection of health and environment,	
and on safety.	
· Ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour
	mixtures are possible.
· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
[·] Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
 Self-reactive substances and mixtures 	Void
· Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in	
contact with water	Void
· Oxidising liquids	Void
Oxidising solids	Void
· Organic peroxides	Heating may cause a fire.
Corrosive to metals	Void
· Desensitised explosives	Void
Other safety characteristics	
· Active oxygen	> 6,9 %

SECTION 10: Stability and reactivity

No further relevant information available.
SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause decomposition at and above the temperature. Contact with incompatible substances can cause decomposition at or below the SADT. No decomposition if used and stored according to specifications. To avoid thermal decomposition do not overheat.
•
Self-accelerating decomposition at SADT.
No further relevant information available.
Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).
Hydrocarbons, carbondioxide and -monoxid. No hazardous decomposition products if used and stored according to specifications.
Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

SECTION 11: Toxicological information

	• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 • Acute toxicity Based on available data, the classification criteria are not met.			
· LD/LC50) values i	relevant for classification:		
3457-61-2	3457-61-2 tert-butyl alpha,alpha-dimethylbenzyl peroxide			
Oral	LD50	4.700 mg/kg (rattus)		
Dermal	LD50	50 >2.000 mg/kg (rattus)		
Inhalative	Inhalative LC50 >1,2 mg/l (rattus)			
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			(Contd. c	of page 6)
98-83-9 2-	phenylpro	pene		
Oral	LD50	4.900 mg/kg (rattus)		
98-86-2 ad	etopheno	ne		
Oral	LD50	2.081 mg/kg (rattus)		
75-91-2 te	rt-butyl hy	droperoxide		
Oral	LD50	805 mg/kg /((70%) (rattus)	
Dermal	LD50	633 mg/kg /((70%) (rabbit)	
Inhalative	LC50 / 4h	1,2 mg/l /(70		
		thylbenzyl) r		
Oral	LD50	>2.000 mg/k		
Dermal	LD50	>2.000 mg/k		
· Skin corr		0	Causes skin irritation.	
		e/irritation	Based on available data, the classification criteria are not met.	
	ory or skin			
sensitisa			May cause an allergic skin reaction.	
· Germ cel	l mutagen	icity	Based on available data, the classification criteria are not met.	
	· Carcinogenicity		Based on available data, the classification criteria are not met.	
· Reproductive toxicity			Based on available data, the classification criteria are not met.	
STOT-single exposure			Based on available data, the classification criteria are not met.	
 STOT-repeated exposure 		osure	Based on available data, the classification criteria are not met.	
Aspiration hazard			Based on available data, the classification criteria are not met.	
		other hazard		
·Endocrin	e disruptiı	ng properties	S	
None of the ingredients is listed.				

SECTION 12: Ecological information

· Aquatic toxicity:	
75-91-2 tert-butyl hydroperoxide	
EC50 / 72h 2,1 mg/l /(70%) (selenastrum capricornutum)	
LC50 / 96h 42,3 mg/l /(70%) (pimephales promelas)	
EC50 24,3 mg/l /(70%) (activa sludge)	
EC50 / 48h 20 mg/l /(70%) (daphnia)	
80-43-3 bis(a,a-dimethylbenzyl) peroxide	
EC50 / 72h >20 mg/l (algae)	
EC50 >1.000 mg/l (activa sludge)	
12.2 Persistence and degradability	
· Degree of elimination:	
· Classification:	
3457-61-2 tert-butyl alpha, alpha-dimethylbenzyl peroxide	
Degradation (Not readily biodegradable) (OECD 301 F)	
98-86-2 acetophenone	
Degradation (Readily biodegradable) (OECD 301 C)	
75-91-2 tert-butyl hydroperoxide	
Degradation (Not readily biodegradable) (OECD 301 D)	
80-43-3 bis(a,a-dimethylbenzyl) peroxide	
Degradation (Not readily biodegradable) (OECD 301 F)	
12.3 Bioaccumulative potential	
· Partition coefficient: nOctanol/water: [Log Kow]	
3457-61-2 tert-butyl alpha,alpha-dimethylbenzyl peroxide	4,4 (25°C)
98-86-2 acetophenone	1,65 (20°C)
75-91-2 tert-butyl hydroperoxide	0,85 (30 °C
80-43-3 bis(a,a-dimethylbenzyl) peroxide	5,6 (25°C)
Bioconcentration factor (BCF)	
80-43-3 bis(a,a-dimethylbenzyl) peroxide	
BCF 747	

· PBT:

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.



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· vPvB:	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.			
12.6 Endocrine disrupting				
properties	The product does not contain substances with endocrine disrupting properties.			
12.7 Other adverse effects				
· Remark:	Toxic for fish			
· Additional ecological informat	ion:			
· General notes:	Toxic for aquatic organisms			
	Also poisonous for fish and plankton in water bodies.			
	Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water			
	Do not allow product to reach ground water, water course or sewage system.			
	Danger to drinking water if even small quantities leak into the ground.			
SECTION 13: Disposal cons	siderations			
13.1 Waste treatment methods				
· Recommendation	After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations.			

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-

Waste disposal key:
 Uncleaned packaging:
 Recommendation:

number.

This material and its container must be disposed of as hazardous waste.

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3109
· 14.2 UN proper shipping name · ADR	UN3109 ORGANIC PEROXIDE TYPE F, LIQUID (tert-BUTYL CUMYL PEROXIDE), ENVIRONMENTALLY HAZARDOUS
·IMDG	ORGANIC PEROXIDE TYPE F, LIQUID (tert-BUTYL CUMYL PEROXIDE), MARINE POLLUTANT
	ORGANIC PEROXIDE TYPE F, LIQUID (tert-BUTYL CUMYL PEROXIDE)
· 14.3 Transport hazard class(es)	
· ADR	
· Class · Label	5.2 (P1) Organic peroxides. 5.2
· Class	5.2 Organic peroxides.
·Label	5.2
Class	5.2 Organic peroxides.
· Label	5.2
· 14.4 Packing group · ADR, IMDG	Void
· 14.5 Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
 14.6 Special precautions for user 	Warning: Organic peroxides.

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	(Contd. of page
· Hazard identification number (Kemler code):	-
· EMS Number:	F-J,S-R
· Stowage Category	D
· Stowage Code	SW1 Protected from sources of heat.
· Segregation Code	SG35 Stow "separated from" SGG1-acids
	SG36 Stow "separated from" SGG18-alkalis.
	SG72 See 7.2.6.3.2.
· 14.7 Maritime transport in bulk according to IMO instru	iments Not applicable.
· Transport/Additional information:	
ADR	
 Limited quantities (LQ) 	125 ml
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· Transport category	2
 Tunnel restriction code 	D
· RID / GGVSEB:	like ADR
· IMDG	
· Limited quantities (LQ)	125 ml
Excepted quantities (EQ)	Code: E0
- · · ·	Not permitted as Excepted Quantity

SECTION 15: Regulatory information

[·] 15.1 Safety, health and environr	nental regulations/legislation specific for the substance or mixture
Directive 2012/18/EU	
 Named dangerous substances ANNEX I 	
- ANNEX I Seveso category	Substance is not listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
Geveso category	E2 Hazardous to the Aquatic Environment
 Qualifying quantity (tonnes) for 	•
the application of lower-tier	
requirements	50 t
 Qualifying quantity (tonnes) fo the application of upper-tier 	
requirements	200 t
REGULATION (EC) No	
1907/2006 ANNEX XVII	Conditions of restriction: 3
· DIRECTIVE 2011/65/EU on the I	restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
None of the ingredients is listed.	
· REGULATION (EU) 2019/1148	
· Annex I - RESTRICTED EXPLC	OSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
· Annex II - REPORTABLE EXPL	OSIVES PRECURSORS
None of the ingredients is listed.	
· Regulation (EC) No 273/2004 o	on drug precursors
None of the ingredients is listed.	
 Regulation (EC) No 111/2005 la precursors 	aying down rules for the monitoring of trade between the Community and third countries in drug
None of the ingredients is listed.	

SECTION 16: Other information

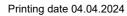
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H226 Flammable liquid and vapour.
- H242 Heating may cause a fire.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.

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Trade name: PEROXAN BU

(Contd. of pag H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H330 Fatal I inhaled. H330 Fatal I inhaled. H330 Fatal I inhaled. H330 Fatal I inhaled. H331 Suspected of causing genetic defects. H335 Suspected of causing cancer. H360D May damage the unborn child. H411 Toxic to aquatic life with long lasting effects. Contact: Tel: +49 2871 9902-0 E-mail: mail@pergan.com Version number of previous version: 11 Abbreviations and acronyms: 11 Abbreviations and acronyms: Carriage of Dangerous Goods by Moral Mark international des marchandises dangerouses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Knaa) Mark international Arr marport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals ELINCS: European Internation of the American Chemical Substances ELINCS: European List of Notified Chemical Substances ELINCS: European Chemical Aster States (Kinson Chemical Substances ELINCS: European Chemical Chemical Substances ELINCS: European Chemica		
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DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic VPVB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Org. Perox. E: Organic peroxides – Type E/F Org. Perox. F: Organic peroxides – Type E/F Acute Tox. 3: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 2 Skin Corr. 1C: Skin corrosion/irritation – Category 1C Skin Intri. 2: Skin corrosion/irritation – Category 1 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Intri. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 2 Skin Sens. 1: Skin sensitisation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 2 Skin Sens. 1: Skin sensitisation – Category 3 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2		
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	* Data compared to the	

previous version altered.