

Revision: 22.02.2023

Page 1/9 Safety data sheet according to Regulation (EC) No 1907/2006, Article 31 Printing date 17.04.2024 Version: 18 (replaces version 17) SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier PEROXAN PO • CAS Number: 3006-82-4 • EG number: 221-110-7 • Registration number: 012-119498310-40 • And Sumber: 012-119498310-40 • A Solumber: 012-119498310-40 • A Solumber: 012-119498310-40 • A Solumber: 012-119498310-40 • A Solution of the substance or mixture and uses advised against No further relevant information available. • Application of the substance / the mixture PERGAN GmbH Hilfsstoffe für industrielle Prozesse Schlavenhorst 71 • Hassification obtainable PA6335 Bochoit Tat: +49 2871 9902-0 • Further information obtainable / Section / Security of labour Qualified person: E-mail: mods@pergan.com • 1.4 Emergency telephone number: - Tet: +49 2871 9902-0 • Section 2: Hazards identification * • Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 • Org. Perox. C H24 Heating may cause a file: Skin Sens. 1 H317 May cause an		-
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Regulation (EC) No 1272/2008 The substance is classified and labelled according to the GB CLP regulation. Hazard pictograms Image: Components of labelling: Signal word Danger Hazard determining components of labelling: tert-butyl 2-ethylperoxyhexanoate Hazard statements H242 Heating may cause a fire. H317 May cause an allergic skin reaction. H360F May damage fertility.	· 2.2 Label elements	
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 Signal word Hazard-determining components of labelling: Hazard statements H242 Heating may cause a fire. H317 May cause an allergic skin reaction. H360F May damage fertility. 		The substance is classified and labelled according to the GB CLP regulation.
 Signal word Danger Hazard-determining components of labelling: tert-butyl 2-ethylperoxyhexanoate Hazard statements H242 Heating may cause a fire. H317 May cause an allergic skin reaction. H360F May damage fertility. 	· Hazard pictograms	
 Signal word Danger Hazard-determining components of labelling: tert-butyl 2-ethylperoxyhexanoate Hazard statements H242 Heating may cause a fire. H317 May cause an allergic skin reaction. H360F May damage fertility. 		
Hazard-determining components of labelling: tert-butyl 2-ethylperoxyhexanoate Hazard statements H242 Hazard statements H242 Hazard statements H241 Hazard statements H242 Hazard statements H242 Hazard statements H317 May cause an allergic skin reaction. H360F May damage fertility.		GHS02 GHS07 GHS08 GHS09
components of labelling:tert-butyl 2-ethylperoxyhexanoateHazard statementsH242Heating may cause a fire.H317May cause an allergic skin reaction.H360F May damage fertility.	· Signal word	Danger
components of labelling:tert-butyl 2-ethylperoxyhexanoateHazard statementsH242Heating may cause a fire.H317May cause an allergic skin reaction.H360F May damage fertility.	· Hazard-determining	
H317 May cause an allergic skin reaction. H360F May damage fertility.	components of labelling:	
H360F May damage fertility.	Hazard statements	
H410 Very loxic to aquatic life with long lasting effects.		H300F May damage remity. H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines). P234 Keep only in original packaging. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P401 Store in accordance with local/regional/national/international regulations. P410 Protect from sunlight. P411+P235 Store at temperatures not exceeding +20°C. Keep cool. Dispose of contents/container in accordance with local/regional/national/international P501 regulations · Additional information: Restricted to professional users. 2.3 Other hazards · Results of PBT and vPvB assessment · PBT: This substance does not meet the PBT/vPvB criteria of UK REACH, Annex XIII.

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SECTION 3: Composition/information on ingredients				
• 3.1 Substances • CAS No. Description • Identification number(s) • EC number:	• CAS No. Description 3006-82-4 tert-butyl 2-ethylperoxyhexanoate • Identification number(s) 3006-82-4 tert-butyl 2-ethylperoxyhexanoate			
· Dangerous components:				
CAS: 3006-82-4 EINECS: 221-110-7 Reg-No.: 01-2119498310-40	tert-butyl 2-ethylperoxyhexanoate Org. Perox. C, H242; Repr. 1B, H360F; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Skin Sens. 1, H317	90-100%		

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information:

Take affected persons into fresh air and keep quiet.

Take care of personal protection for the first aider.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · 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

No further relevant information available.

No further relevant information available.

Immediately remove contaminated clothing.

If symptoms persist consult doctor.

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	Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.
 5.3 Advice for firefighters 	
Protective equipment:	Do not inhale explosion gases or combustion gases.
Additional information	Cool endangered receptacles with water spray. Self-protection first!

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and 	
emergency procedures	Remove persons from danger area.
	Keep away from ignition sources.
	After exceeding the emergency temperature must be diluted with a suitable desentisation agent to < 10 %.
	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:	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.
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SECTION 7: Handling and storage

SECTION 7: Handling and st	torage
 7.1 Precautions for safe handling 	Keep receptacles tightly sealed. Keep away from heat and direct sunlight. Open and handle receptacle with care. Prevent formation of aerosols. Wear suitable respiratory protective device when decanting larger quantities without extractor facilities. Handle with care. Avoid jolting, friction and impact. Do not refill residue into storage receptacles. Restrict the quantity stored at the work place. 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). The product must be preserved, stored and transported continously cool. Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy- metal compounds and amines). Avoid contact with skin and eyes. While using do not eat, drink or smoke. Do not generate flames or sparks. Keep product and emptied container away from heat and sources of ignition. Avoid shock and friction. Take precautionary measures against static discharges.
 Information about fire - and explosion protection: 	Protect from heat. Protect against electrostatic charges. Prevent impact and friction. Use explosion-proof apparatus / fittings and spark-proof tools. Fumes can combine with air to form an explosive mixture.
	 Wear shoes with conductive soles. Formation of flammable or explosive gas/air-mixtures is possible. Avoid open flames, sparks, direct sunlight and other sources of ignition. Keep ignition sources away - Do not smoke.
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: · Information about storage in	Store only in the original receptacle. Prevent any seepage into the ground. Use only receptacles specifically permitted for this substance/product.
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.
storage conditions:	Keep container tightly sealed. Protect from heat and direct sunlight. Protect from contamination. Store under lock and key and with access restricted to technical experts or their assistants only.
 Maximum storage temperature: 	+15 °C 15 °C
Minimum storage temperature:	-25 °C -25 °C
 Storage class: 7.3 Specific end use(s) 	4.1A No further relevant information available.

SECTION 8: Exposure controls/personal protection

• 8.1 Control parameters • Ingredients with limit values that require monitoring at the workplace: Not required.

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			(Contd. of page 3)
DNELs			
3006-82-4 tert-butyl 2-e	• • •		
	•	5.6 mg/kg bw/day (Worker)	
Inhalative DNEL Longte	erm System	9.8 mg/m3 (Worker)	
PNECs			
3006-82-4 tert-butyl 2-e			
PNEC Marinewater sed	-	•	
PNEC Freshwater	0.002 mg/l	. ,	
PNEC Freshwater sed	0.622 mg/k	•	
PNEC STP	0.64 mg/l (A	-	
PNEC Marinewater	0 mg/l (AF		
 Additional informatio 	on:	The lists valid during the mak	king were used as basis.
• 8.2 Exposure controls			
· Appropriate engineeri	-		-
controls		No further data; see section a such as personal protective	
· General protective ar		such as personal protective	e equipment
hygienic measures:	-		asures are to be adhered to when handling chemicals.
		Keep away from foodstuffs, b	
		mmediately remove all soile Nash hands before breaks a	
		Store protective clothing separate	
		Avoid contact with the eyes a	
		Do not eat, drink, smoke or s	
		Use skin protection cream fo	
· Respiratory protectio		Not necessary if room is well	yhly after work and before breaks. -ventilated
		Use suitable respirat	tory device when it exceed exposure limit and when insufficiently ventilated.
		Filter A2	
· Hand protection	(gloves with CE-labelling of category III.
		Selection of the glov	e material on consideration of the penetration times, rates of diffusion and the
	(degradation	
		Protective gloves	
• Material of gloves	-		gloves does not only depend on the material, but also on further marks of
		quality and varies from manu	facturer to manufacturer.
		Butyl rubber, BR	
		Fluorocarbon rubber (Viton) Nitrile rubber, NBR	
		Veoprene	
• Penetration time of g		•	
material			has to be found out by the manufacturer of the protective gloves and has to be
· Evo/faco protoction	(observed.	
 Eye/face protection 		Tightly sealed goggle	es
Body protection:		Drotostivo work oloth	ling
		Protective work cloth	ling
SECTION & Dhusies	l and ahar	nical proportion	
SECTION 9: Physica	al and cher	nical properties	
	ic physical	and chemical properties	
• General Information			
· Colour: · Odour:			Colourless
· Melting point/freezing	a point:		Characteristic Not applicable.
· Boiling point or initia		int and boiling range	Not applicable.
· Flash point:	3 9 9	J ~~	> SADT
Decomposition temp	erature:		+35 °C (SADT)
· Viscosity:			4 m Dec
 Dynamic at 20 °C: Solubility 			4 mPas
· water:			Undetermined.
			(Contd. on page 5)

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· Partition coefficient n-octanol/water (log value)	not determined
Density and/or relative density	
Density at 20 °C:	0.9 g/cm³
9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment,	
and on safety.	
· Explosive properties:	Risk of explosion by shock, friction, fire or other sources of ignition.
· 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	> 7.2 %

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

the classification classes as defined in Regulation (EC) No 1272/2008 Acute toxicity Based on available data, the classification criteria are not met.				
· LD/LC50) values re	levant for classification:		
3006-82-4	tert-butyl	2-ethylperoxyhexanoate		
Oral	LD50	>10,000 mg/kg (rattus)		
Dermal	LD50	14,142-20,000 mg/kg (rabbit)		
Inhalative	Inhalative LC50 / 4h 42.2 mg/l (rattus)			
· Skin cori	rosion/irrit			
		(Contd. on page 6		



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	(Contd. of pag
Serious eye damage/irritation	Low irritant effect
· Respiratory or skin	
sensitisation	May cause an allergic skin reaction.
 Germ cell mutagenicity Carcinogenicity 	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
· Reproductive toxicity	May damage fertility.
· STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
11.2 Information on other hazar	
Endocrine disrupting propertie Substance is not listed	\$
Substance is not listed.	
SECTION 12: Ecological info	ormation
12.1 Toxicity	
· Aquatic toxicity:	
3006-82-4 tert-butyl 2-ethylperox	
EC50 / 72h 0.44 mg/l (alga (Süss	
LC50 / 96h 8.66 mg/l (poecilia ref	ticulata)
EC50 / 48h 7.5 mg/l (daphnia)	
12.2 Persistence and degradabi	lity
Degree of elimination:	
Classification:	
3006-82-4 tert-butyl 2-ethylperox	
Degradation (Readily biodegrada	able) (OECD 301 D)
12.3 Bioaccumulative potential	
Partition coefficient: nOctanol	
	4,79 (20°)
12.4 Mobility in soil 12.5 Results of PBT and vPvB a	No further relevant information available.
• PBT:	This substance does not meet the PBT/vPvB criteria of UK REACH, Annex XIII.
· vPvB:	This substance does not meet the PBT/vPvB criteria of UK REACH, Annex XIII.
12.6 Endocrine disrupting	
properties	The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects	
· Additional ecological informati	
· General notes:	Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.
	Do not allow product to reach ground water, water course of sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.
SECTION 13: Disposal consi	iderations
13.1 Waste treatment methods	
• Recommendation	After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a spe
Recommendation	treatment (e. g. thermal utilization) under observance of all official regulations.
Recommendation	Must not be disposed together with household garbage. Do not allow product to reach sewage
· Waste disposal key:	

· Uncleaned packaging: · Recommendation:

SECTION 14: Transport information		
· 14.1 UN number or ID number · ADR, IMDG	UN3113	
		(Contd. on page 7)

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

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44.2 UN super ching nome	(Contd. of pag	
14.2 UN proper shipping name · ADR	UN3113 ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED (tert-BUTYLPEROXY-2-ETHYLHEXANOATE), ENVIRONMENTALLY HAZARDOUS	
· IMDG	ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED (tert-BUTYLPEROXY-2-ETHYLHEXANOATE), MARINE POLLUTANT	
14.3 Transport hazard class(es)		
ADR		
Class	5.2 (P2) Organic peroxides.	
	5.2	
· IMDG		
· Class · Label	5.2 Organic peroxides. 5.2	
·IATA		
· Class · Label	X X	
14.4 Packing group	^	
· ADR, IMDG	Void	
14.5 Environmental hazards:	Product contains environmentally hazardous substances: tert-	
· Marine pollutant:	BUTYLPEROXY-2-ETHYLHEXANOATE Symbol (fish and tree)	
Special marking (ADR):	Symbol (fish and tree)	
14.6 Special precautions for user	Warning: Organic peroxides.	
 Hazard identification number (Kemler code): Stowage Category 	- D	
· Stowage Code	SW1 Protected from sources of heat.	
	SW3 Shall be transported under temperature control.	
· Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.	
14.7 Maritime transport in bulk according to IMO instru	-	
Transport/Additional information:		
ADR		
Limited quantities (LQ)	0	
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity	
· Transport category	1	
Tunnel restriction code	D	
· RID / GGVSEB:	no admission	
·IMDG		
· Limited quantities (LQ)	0 Codes E0	
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity	
· IATA		
· Remarks:	no admission	
· Control temperature:	+20 °C	
· Emergency temperature:	+25 °C	

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15.1 Safety, health and env	ironmental regulations/legislation specific for the substance or mixture
· Regulated explosives pre	cursors
Substance is not listed.	
· Regulated poisons	
Substance is not listed.	
· Reportable explosives pro	ecursors
Substance is not listed.	
· Reportable poisons	
Substance is not listed.	
 Directive 2012/18/EU Qualifying quantity (tonne the application of lower-ti requirements Qualifying quantity (tonne the application of upper-t requirements 	ier 50 t es) for
	the restriction of the use of certain hazardous substances in electrical and electronic equipment – Anne
Substance is not listed.	
· Annex I - RESTRICTED EX	XPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
Substance is not listed.	
· Annex II - REPORTABLE	EXPLOSIVES PRECURSORS
Substance is not listed.	
· Regulation (EC) No 273/2	004 on drug precursors
Substance is not listed.	
 Regulation (EC) No 111/20 precursors 	005 laying down rules for the monitoring of trade between the Community and third countries in drug
Substance is not listed.	
N. 0. 1. 1.0.	
• National regulations:	
0	ions and prohibitive regulations

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	 H242 Heating may cause a fire. H317 May cause an allergic skin reaction. H360F May damage fertility. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.
 Department issuing SDS: 	Environment protection / Security of labour
Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
 Abbreviations and acronyms: 	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
	IMDG: International Maritime Code for Dangerous Goods
	IATA: International Air Transport Association
	GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances
	CAS: Chemical Abstracts Service (division of the American Chemical Society)
	DNEL: Derived No-Effect Level (UK REACH)
	PNEC: Predicted No-Effect Concentration (UK REACH)
	LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
	PBT: Persistent, Bioaccumulative and Toxic
	vPvB: very Persistent and very Bioaccumulative
	Org. Perox. C: Organic peroxides – Type C/D Skin Sens. 1: Skin sensitisation – Category 1
	Skin Seris. I. Skil Serisubaddi – Category 1 Repr. 18: Reproductive toxicity – Category 1B
	Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
	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. (Contd. of page 8)

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