

Version: 14 (replaces version 13)



Revision: 22.02.2023

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

· 1.1 Product identifier

PEROXAN PO-50 P

· Trade name:	PEROXAN PO-50 P		
· 1.2 Relevant identified uses of the	ne substance or mixture and uses advised against No further relevant information available.		
<ul> <li>Application of the substance / the mixture</li> </ul>	Reaction initiator For industrial use		
<ul> <li>1.3 Details of the supplier of the</li> <li>Manufacturer/Supplier:</li> </ul>	safety data sheet PERGAN GmbH Hilfsstoffe für industrielle Prozesse Schlavenhorst 71 D-46395 Bocholt Tel: +49 2871 9902-0 Fax: +49 2871 9902-50		
<ul> <li>Further information obtainable from:</li> <li>1.4 Emergency telephone number:</li> </ul>	Environment protection / Security of labour Qualified person: E-mail: msds@pergan.com - Tel: +49 2871 9902-0		
SECTION 2 <sup>•</sup> Hazards identific	cation		

SECTION 2: Hazards identifi	cation			
2.1 Classification of the substance or mixtureClassification according to Regulation (EC) No 1272/2008Org. Perox. EH242Heating may cause a fire.Skin Sens. 1H317May cause an allergic skin reaction.Repr. 1BH360FAquatic Acute 1H400Very toxic to aquatic life.Aquatic Chronic 2H411Toxic to aquatic life with long lasting effects.				
• 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 • Hazard pictograms	The product is classified and labelled according to the CLP regulation.			
· Signal word	Danger			
<ul> <li>Hazard-determining components of labelling:</li> <li>Hazard statements</li> </ul>	tert-butyl 2-ethylperoxyhexanoate H242 Heating may cause a fire. H317 May cause an allergic skin reaction. H360F May damage fertility. H410 Very toxic to aquatic life with long lasting effects.			
<ul> <li>Precautionary statements</li> </ul>	<ul> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P220 Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).</li> <li>P234 Keep only in original packaging.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P410 Protect from sunlight.</li> <li>P411+P235 Store at temperatures not exceeding +20°C. Keep cool.</li> <li>P420 Store separately.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> </ul>			
<ul> <li>Additional information:</li> <li>2.3 Other hazards</li> </ul>	Restricted to professional users.			
• Results of PBT and vPvB asses	ssment			
<ul> <li>PBT:</li> <li>vPvB:</li> <li>Determination of endocrine-</li> </ul>	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.			
disrupting properties	The product does not contain substances with endocrine disrupting properties.			

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#### **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures		
· 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	40-50%
• Additional information:	For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures			
<ul> <li>• 4.1 Description of first aid meas</li> <li>• General information:</li> </ul>	Take care of personal protection for the first aider.		
· After inhalation:	Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep quiet.		
· After skin contact:	Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing.		
<ul> <li>After eye contact:</li> </ul>	Rinse opened eye for several minutes under running water.		
After swallowing:	If symptoms persist consult doctor.		
<ul> <li>4.2 Most important symptoms and effects, both acute and delayed</li> <li>4.3 Indication of any immediate medical attention and special</li> </ul>	No further relevant information available.		

No further relevant information available.

#### **SECTION 5: Firefighting measures**

• 5.1 Extinguishing media

treatment needed

Additional information	Cool endangered receptacles with water spray. Self-protection first!
<ul> <li>5.3 Advice for firefighters</li> <li>Protective equipment:</li> </ul>	Do not inhale explosion gases or combustion gases.
the substance or mixture	Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.
• Suitable extinguishing agents: • 5.2 Special hazards arising from	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

#### **SECTION 6: Accidental release measures**

<ul> <li>6.1 Personal precautions, protective equipment and</li> </ul>	
emergency procedures	Keep away from ignition sources.
	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.
	Pick up mechanically, collect in a suitable receptacle and dispose 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**

OLOTION 7. Handling and St	
· 7.1 Precautions for safe	
handling	Keep away from heat and direct sunlight.
	Open and handle receptacle with care.
	Prevent formation of dust.
	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.
	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.
	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.
	bo not smoke.
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.
	Dust can combine with air to form an explosive mixture.
	Substance/product is oxidising when dry.
	Product is not explosive. However, formation of explosive air/dust mixtures are possible.
	(💓) Avoid open flames, sparks, direct sunlight and other sources of ignition.
	Keep ignition sources away - Do not smoke.
<ul> <li>7.2 Conditions for safe storage,</li> </ul>	
· Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
Requirements to be met by	
storerooms and receptacles:	Store only in the original receptacle.
	Prevent any seepage into the ground.
Information chart stars in	Use only receptacles specifically permitted for this substance/product.
Information about storage in	Do not store or park erronic perside teacther with beautymetal compounds and emines
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	otore away norn roodstand, drinks and recurry stand.
storage conditions:	Protect from heat and direct sunlight.
	Protect from contamination.
	Storage in a collecting room is required.
Recommended storage	
temperature (To maintain	
quality):	max.: +15 °C
· Control temperature:	+20 °C
<ul> <li>Emergency temperature:</li> </ul>	+25 °C
· Storage class:	5.2
• 7.3 Specific end use(s)	No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

<ul> <li>8.1 Control parameters</li> <li>Ingredients with limit values that require monitoring at the workplace:</li> </ul>	The product does not contain any relevant quantities of materials monitored at the workplace.
· DNELs	

	DNELS			
3006-82-4 tert-butyl 2-ethylperoxyhexanoate			hexanoate	
	Dermal	DNEL Longterm System	5,6 mg/kg bw/day (Worker)	
	Inhalative	DNEL Longterm System	9,8 mg/m3 (Worker)	
			(Contd. on nogo A)	

with critical values that have to be

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			(Contd. of page 3)
· PNECs	41		
3006-82-4 tert-butyl 2-6			
	rinewater sed 0,0622 mg/kg sed dw		
PNEC Freshwater	0,002 mg/l (AF 50)		
	0,622 mg/kg sed dw		
PNEC STP	0,64 mg/l (Al	,	
PNEC Marinewater	0 mg/l (AF 5		the second se
• Additional informatio		ne lists valid during the ma	aking were used as basis.
8.2 Exposure controls • Appropriate engineeri			
controls		o further data; see section	
		ich as personal protectiv	ve equipment
<ul> <li>General protective an hygienic measures:</li> </ul>		ne usual precautionary me	asures are to be adhered to when handling chemicals.
nygienic measures.		eep away from foodstuffs,	
			ed and contaminated clothing
		ash hands before breaks	
		ore protective clothing sep	
		void close or long term cor o not eat, drink, smoke or	
		se skin protection cream for	
			ighly after work and before breaks.
· Respiratory protection		ot necessary if room is we	
			atory device when it exceed exposure limit and when insufficiently ventilated.
			atory device when it exceed exposure limit and when insufficiently ventilated.
		à	
	(	Filter P2	
· Hand protection	0	ly use chemical-protectiv	e gloves with CE-labelling of category III.
			ve material on consideration of the penetration times, rates of diffusion and the
		degradation	
		Protective gloves	
· Material of gloves	T		gloves does not only depend on the material, but also on further marks of
-	qu	ality and varies from man	ufacturer to manufacturer.
		utyl rubber, BR	
		uorocarbon rubber (Viton) trile rubber, NBR	
		eoprene	
· Penetration time of		I	
material			has to be found out by the manufacturer of the protective gloves and has to be
	ot	oserved.	
· Eye/face protection		Tightly sealed gogg	les
<ul> <li>Body protection:</li> </ul>			
		Protective work clot	hing
SECTION 9: Physica	and chem	ical properties	
	ic physical a	nd chemical properties	
· General Information			
· Colour:			Whitish
· Odour:			Characteristic
<ul> <li>Odour threshold:</li> <li>Melting point/freezing</li> </ul>	a point:		Not determined.
Boiling point or initia		nt and boiling range	Not applicable. Not applicable.
· Flammability		and soming lange	May cause fire

May cause fire.

Not determined.

Not determined. Not applicable.

+35 °C (SADT)

Not applicable.

- · Flammability Lower and upper explosion limit
- · Lower:
- · Upper: · Flash point:
- Decomposition temperature:
- · pH

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· Viscosity:	
· Kinematic viscosity	Not applicable.
· Dynamic:	Not applicable.
· Solubility	
· water:	Undetermined.
<ul> <li>Partition coefficient n-octanol/water (log value)</li> </ul>	not determined
· Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C:	1,3 g/cm³
· Relative density	Not determined.
Bulk density at 20 °C:	310 kg/m³
· Vapour density	Not applicable.
Particle characteristics	
See section 3.	
9.2 Other information	No further relevant information available.
· Appearance:	
Form:	Powder
Important information on protection of health and envir	onment,
and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/dust
	mixtures are possible.
· Change in condition	
· Evaporation rate	Not applicable.
· 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
<ul> <li>Self-reactive substances and mixtures</li> </ul>	Void
· Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases	sin
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	3,6 - 3,8 %
AULTO UNING IN	0,0 - 0,0 /0

#### SECTION 10: Stability and reactivity

<ul> <li>10.1 Reactivity</li> <li>10.2 Chemical stability</li> <li>Thermal decomposition /</li> </ul>	No further relevant information available.
conditions to be avoided:	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.
· 10.3 Possibility of hazardous	To avoid themial decomposition do not overheat.
reactions	Self-accelerating decomposition at SADT.
<ul> <li>10.4 Conditions to avoid</li> </ul>	No further relevant information available.
<ul> <li>10.5 Incompatible materials:</li> </ul>	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).
<ul> <li>10.6 Hazardous decomposition</li> </ul>	
products:	Hydrocarbons, carbondioxide and -monoxid.
	No hazardous decomposition products if used and stored according to specifications.

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· Additional information:	(Contd. of page 5) Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.
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#### **SECTION 11: Toxicological information**

11.1 Inform		hazard class	ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.
· LD/LC50	values rel	evant for cla	assification:
3006-82-4 t	ert-butyl 2	2-ethylperox	yhexanoate
Oral I	_D50	>10.000 mg/	kg (rattus)
Dermal L	_D50	14.142-20.00	00 mg/kg (rabbit)
Inhalative I	_C50 / 4h	42,2 mg/l (ra	ttus)
· Skin corro	osion/irrita	ation	Based on available data, the classification criteria are not met.
· Serious ey	ye damage	e/irritation	Based on available data, the classification criteria are not met.
· Respirator	ry or skin		
sensitisati	ion		May cause an allergic skin reaction.
· Germ cell	mutageni	icity	Based on available data, the classification criteria are not met.
· Carcinoge	enicity		Based on available data, the classification criteria are not met.
Reproduct	tive toxici	ity	May damage fertility.
STOT-sing	gle exposi	ure	Based on available data, the classification criteria are not met.
STOT-repe	eated exp	osure	Based on available data, the classification criteria are not met.
Aspiration	hazard		Based on available data, the classification criteria are not met.
11.2 Inform	nation on	other hazard	ls
· Endocrine	e disruptir	ng properties	3
None of the	ingredien	ts is listed.	

#### **SECTION 12: Ecological information**

· Aquatic toxicity:		
3006-82-4 tert-butyl 2-ethylper	roxyhexanoate	
EC50 / 72h 0,44 mg/l (alga (Sü	-	
LC50 / 96h 8,66 mg/l (poecilia		
EC50 / 48h 7,5 mg/l (daphnia)	,	
12.2 Persistence and degrada	bility	
Degree of elimination:		
· Classification:		
3006-82-4 tert-butyl 2-ethylper	oxyhexanoate	
Degradation (Readily biodegra	idable) (OECD 301 D)	
12.3 Bioaccumulative potentia	al	
· Partition coefficient: nOctan	ol/water: [Log Kow]	
3006-82-4 tert-butyl 2-ethylperc	pxyhexanoate	4,79 (20°C
· 12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvB	B assessment	
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to R	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to R	≀EACH, annex XIII.
12.6 Endocrine disrupting		
properties	The product does not contain substances with endocrine disrupting properties.	
• 12.7 Other adverse effects	No further relevant information available.	
· Remark:	Toxic for fish	
Additional ecological information		
· General notes:	Also poisonous for fish and plankton in water bodies.	
	Toxic for aquatic organisms	doug for water
	Water hazard class 3 (German Regulation) (Self-assessment): extremely hazard Do not allow product to reach ground water, water course or sewage system, ev	

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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31



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SECTION 13: Disposal consi	iderations
-	
<ul> <li>13.1 Waste treatment methods</li> <li>Recommendation</li> </ul>	After diluting with a suitable inert solid material to 10 %, the product 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.
· Waste disposal key:	Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)- number.
<ul> <li>Uncleaned packaging:</li> <li>Recommendation:</li> </ul>	This material and its container must be disposed of as hazardous waste.
SECTION 14: Transport info	rmation
· 14.1 UN number or ID number · ADR, IMDG	UN3118
<ul> <li>14.2 UN proper shipping name</li> <li>ADR</li> <li>IMDG</li> </ul>	UN3118 ORGANIC PEROXIDE TYPE E, SOLID, TEMPERATURE CONTROLLED (tert-BUTYLPEROXY-2-ETHYLHEXANOATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE E, SOLID, TEMPERATURE CONTROLLED
	(tert-BUTYLPEROXY-2-ETHYLHEXANOATE), MARINE POLLUTANT
· 14.3 Transport hazard class(es)	
· ADR	
· Class · Label	5.2 (P2) Organic peroxides. 5.2
·IMDG	
· Class · Label	5.2 Organic peroxides. 5.2
· IATA · Class · Label	X X
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG</li> </ul>	Void
<ul> <li>• 14.5 Environmental hazards:</li> <li>• Marine pollutant:</li> </ul>	Product contains environmentally hazardous substances: tert- BUTYLPEROXY-2-ETHYLHEXANOATE Symbol (fish and tree)
<ul> <li>Special marking (ADR):</li> </ul>	Symbol (fish and tree)
14.6 Special precautions for use	
<ul> <li>Hazard identification number (</li> <li>Stowage Category</li> </ul>	(Kemier code): - D
Stowage Code	SW1 Protected from sources of heat.
· Segregation Code	SW3 Shall be transported under temperature control. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· 14.7 Maritime transport in bulk a	according to IMO instruments Not applicable.
Transport/Additional information	on:
ADR	
<ul> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	0 Code: E0 Not permitted as Excepted Quantity
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	1 D
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· RID / GGVSEB:	no admission
·IMDG	
· Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
·IATA	
· Remarks:	no admission
Control temperature:	+20 °C
Emergency temperature:	+25 °C

### SECTION 15: Regulatory information

· 15.1 Safety, health and environ	mental regulations/legislation specific for the substance or mixture
Directive 2012/18/EU	
<ul> <li>Named dangerous substances</li> </ul>	
	None of the ingredients is listed.
· Seveso category	P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES E1 Hazardous to the Aquatic Environment
<ul> <li>Qualifying quantity (tonnes) for</li> </ul>	Dr
the application of lower-tier	
requirements	50 t
Qualifying quantity (tonnes) for the application of upper-tier	
requirements	200 t
REGULATION (EC) No	
1907/2006 ANNEX XVII	Conditions of restriction: 30, 75
DIRECTIVE 2011/65/EU on the	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 EXPLO	DSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
· Annex II - REPORTABLE EXPI	LOSIVES PRECURSORS
None of the ingredients is listed.	
· Regulation (EC) No 273/2004 (	on drug precursors
None of the ingredients is listed.	
<ul> <li>Regulation (EC) No 111/2005 I precursors</li> </ul>	aying down rules for the monitoring of trade between the Community and third countries in drug

#### **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.

· Department issuing SDS: Environment protection / Security of labour
Contact: Tel: +49 2871 9902-0
E-mail: mail@pergan.com
Version number of previous
version: 13
• 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)
International mansport of angletous goodus by Kanij 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
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society) (Contd. on page

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	Derived No-Effect Level (REACH)
	Predicted No-Effect Concentration (REACH)
	_ethal concentration, 50 percent
LD50:	_ethal dose, 50 percent
PBT: P	ersistent, Bioaccumulative and Toxic
vPvB: v	very Persistent and very Bioaccumulative
Org. Pe	erox. C: Organic peroxides – Type C/D
Org. Pe	erox. E: Organic peroxides – Type E/F
Skin Se	ens. 1: Skin sensitisation – Category 1
Repr. 1	B: Reproductive toxicity – Category 1B
	Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1
	Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category

• \* Data compared to the previous version altered.

