

	Safety data sheet The Peroxide Comp
intin a data 04.04.0004	according to Regulation (EC) No 1907/2006, Article 31
inting date 04.04.2024	Version: 9 (replaces version 8) Revision: 14.0
SECTION 1: Identification of	f the substance/mixture and of the company/undertaking
· 1.1 Product identifier	
· Trade name:	PEROXAN AEC
· CAS Number:	70833-40-8
 EC number: Registration number: 	274-919-2 01-2119965140-45
 1.2 Relevant identified uses of t 	No further relevant information available.
 Application of the substance / the mixture 	Reaction initiator For industrial use
· 1.3 Details of the supplier of the	e safety data sheet
Manufacturer/Supplier:	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: 	
	Environment protection / Security of labour Qualified person: E-mail: msds@pergan.com
 1.4 Emergency telephone number: 	- Tel: +49 2871 9902-0
SECTION 2: Hazards identifi	ication
2.1 Classification of the substa	noo or mixturo
 2.1 Classification of the substation Classification according to Register 	
	yulalion (EC) NU 12/2/2000
•	
Org. Perox. D H242 Heating ma	•
Org. Perox. D H242 Heating ma Skin Sens. 1 H317 May cause	•
Org. Perox. D H242 Heating ma Skin Sens. 1 H317 May cause • 2.2 Label elements	•
Org. Perox. D H242 Heating ma Skin Sens. 1 H317 May cause 2.2 Label elements Labelling according to	an allergic skin reaction.
Org. Perox. D H242 Heating ma Skin Sens. 1 H317 May cause 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008	•
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Org. Perox. D H242 Heating ma Skin Sens. 1 H317 May cause 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008	an allergic skin reaction. The substance is classified and labelled according to the CLP regulation.
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Org. Perox. D H242 Heating ma Skin Sens. 1 H317 May cause • 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 • Hazard pictograms	an allergic skin reaction. The substance is classified and labelled according to the CLP regulation.
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PERGAN The Peroxide Company

Revision: 14.02.2023

Trade name: PEROXAN AEC

(Contd. of page 1) · Identification number(s) · EC number: 274-919-2 **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: 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. · After eye contact: Rinse opened eye for several minutes under running water. After swallowing: If symptoms persist consult doctor. 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available. 4.3 Indication of any immediate medical attention and special treatment needed 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 Under certain fire conditions, traces of other toxic gases cannot be excluded.

• 5.3 Advice for firefighters
 • Protective equipment:
 • Additional information
 Hydrocarbons, carbondioxide and -monoxid.
 Do not inhale explosion gases or combustion gases.
 Cool endangered receptacles with water spray.
 Self-protection first!

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and 	
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:	
	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 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.
	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.
	Before break and at the end of work hands should be thoroughly washed.
	(Contd. on page 2)

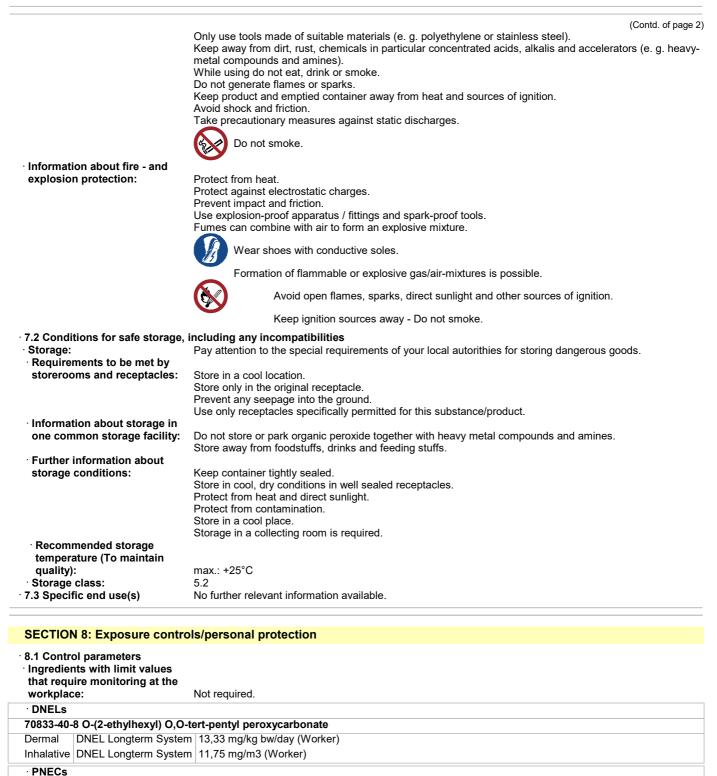
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70833-40-8 O-(2-ethylhexyl) O,O-tert-pentyl peroxycarbonatePNEC Marinewater sed0,017 mg/kg sed dw (-)PNEC Freshwater0,002 mg/l (-)PNEC Freshwater sed1,7 mg/kg sed dw (-)PNEC Soil0,34 mg/kg soil dw (-)

12,8 mg/l (AF 100)

0 mg/l (AF 10)

PNEC STP

PNEC Marinewater

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		(Contd. of page 3)
 Additional information: 	The lists valid during the making were used as basis.	
 8.2 Exposure controls 		
• Appropriate engineering		
controls	No further data; see section 7.	
	, such as personal protective equipment	
General protective and		
hygienic 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.	
	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: 	Not necessary if room is well-ventilated.	
	Use suitable respiratory device when it exceed exposure limit and when insufficiently Filter A2	y ventilated.
· Hand 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 did degradation	fusion and the
Material of slaves	Protective gloves	
· Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on furthe quality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene	r marks of
 Penetration time of glove 		
material	The exact break trough time has to be found out by the manufacturer of the protective gloves observed.	s and has to be
· 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:	Colourless
· Odour:	Characteristic
Melting point/freezing point:	Not applicable.
Boiling point or initial boiling point and boiling range	Not applicable.
Flash point:	Not determined.
Decomposition temperature:	+55 °C (SADT)
· Solubility	
water:	Not miscible or difficult to mix.
 Partition coefficient n-octanol/water (log value) 	not determined
Density and/or relative density	
· Density at 20 °C:	0,925 g/cm ³
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
Important information on protection of health and environment,	
and on safety.	
• Explosive properties:	Product is not explosive. However, formation of explosive air/vapour
Explosive properties.	mixtures are possible.
 Information with regard to physical hazard classes 	
· Explosives	Void
· Flammable gases	Void
Aerosols	Void
	(Contd. on page 5)
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		(Contd. of page
· 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 ga	ises 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	> 5,8 %	

SECTION 10: Stability and reactivity

 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / 	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 		
reactions	Self-accelerating decomposition at SADT.	
 10.4 Conditions to avoid 	No further relevant information available.	
· 10.5 Incompatible materials:	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e.g. heavy-metal compounds and amines).	
 10.6 Hazardous decomposition 		
products:	Hydrocarbons, carbondioxide and -monoxid. No hazardous decomposition products if used and stored according to specifications.	
· Additional information:	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 relevant for classification: 70833-40-8 O-(2-ethylhexyl) O,O-tert-pentyl peroxycarbonate Oral LD50 >5.000 mg/kg (rattus) · Skin corrosion/irritation Based on available data, the classification criteria are not met. · Serious eye damage/irritation Low irritant effect · Respiratory or skin sensitisation May cause an allergic skin reaction. Germ cell mutagenicity Based on available data, the classification criteria are not met. · Carcinogenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. · Reproductive toxicity 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 hazards Endocrine disrupting properties Substance is not listed. MT

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Trade name: **PEROXAN AEC**

No further relevant information available. dability	
O,O-tert-pentyl peroxycarbonate	
radable) (OECD 301 D)	
tial	
anol/water: [Log Kow]	
	5,8 (20°C
No further relevant information available. vB assessment	
This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
-	
The product does not contain substances with endocrine disrupting properties.	
mation	
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small guantities leak into the ground.	
	dability O,O-tert-pentyl peroxycarbonate iradable) (OECD 301 D) tial anol/water: [Log Kow] No further relevant information available. vB assessment This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. The product does not contain substances with endocrine disrupting properties. mation: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.

· Waste disposal key:

X

number.

After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a specitreatment (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:

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 	UN3105
· 14.2 UN proper shipping name · ADR	UN3105 ORGANIC PEROXIDE TYPE D, LIQUID (tert-AMYL PEROXY-2- ETHYLHEXYL CARBONATE)
· IMDG, IATA	ORGANIC PEROXIDE TYPE D, LIQUID (tert-AMYL PEROXY-2- ETHYLHEXYL CARBONATE)
14.3 Transport hazard class(es)	
ADR	
· Class · Label	5.2 (P1) Organic peroxides.
	5.2
· Class	5.2 Organic peroxides.
· Label	5.2
	(Contd. on page
	MT

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	(Contd. of page (
· 14.4 Packing group · ADR, IMDG, IATA	Void
 14.5 Environmental hazards: Marine pollutant: 	No
 14.6 Special precautions for user Hazard identification number (Kemler cod Stowage Category Stowage Code Segregation Code 	Warning: Organic peroxides. - D SW1 Protected from sources of heat. 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 t	o IMO instruments Not applicable.
· Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	125 ml Code: E0 Not permitted as Excepted Quantity
 Transport category Tunnel restriction code 	2 D
· RID / GGVSEB:	like ADR
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	125 ml Code: E0 Not permitted as Excepted Quantity
Directive 2012/18/EU Named dangerous substances	lations/legislation specific for the substance or mixture
oubolanot	-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

the application of lower-tier requirements 50 t

Qualifying quantity (tonnes) for

the application of upper-tier requirements 20

requirements 200 t • REGULATION (EC) No

 1907/2006 ANNEX XVII
 Conditions of restriction: 3

• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES 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 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

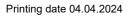
Substance is not listed.

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.

Department issuing SDS:

DS: Environment protection / Security of labour



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Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
Version number of previous	
version:	8
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) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Air Transport Association
	CHX: International via Transport Passification 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 (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative Org. Perox. D: Organic peroxides – Type C/D Skin Sens. 1: Skin sensitisation – Category 1
* Data compared to the previous version altered.	MT