

Revision: 10.02.2023

Printing date 04.04.2024	

Version: 9 (replaces version 8)

SECTION 1: Identification	of the substance/mixture and of the company/undertaking
· 1.1 Product identifier	
· Trade name:	PEROXAN HXY-85 W
· CAS Number:	1068-27-5
· EC number:	213-944-5
 Registration number: 	01-2120752828-4
 1.2 Relevant identified uses of 	of the 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	a safety data sheet
· Manufacturer/Supplier:	PERGAN GmbH
manufacturen oupprior.	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
0 0	
· 2.2 Label elements	
 Labelling according to 	
Regulation (EC) No 1272/2008	The substance is classified and labelled according to the GB CLP regulation.
· Hazard pictograms	
	GHS02 GHS09
· Signal word	Danger
Hazard-determining	
components of labelling:	di-tert-butyl 1,1,4,4-tetramethylbut-2-yn-1,4-ylene diperoxide
· Hazard statements	H242 Heating may cause a fire.
	H411 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

2		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+P3	378 In case of fire: Use CO2, powder or water spray to extinguish.
	P410	Protect from sunlight.
	P411+P2	235 Store at temperatures not exceeding +30°C. Keep cool.
	P420	Store separately.
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
• 2.3 Other hazards		с С
· Results of PBT and vPvB	assessment	
	This out	atanaa daga nat maat tha DRT/vDvP aritaria of UK REACH. Annay XIII

· 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.

SECTION 3: Composition/information on ingredients	
 3.1 Substances CAS No. Description Identification number(s) 	1068-27-5 di-tert-butyl 1,1,4,4-tetramethylbut-2-yn-1,4-ylene diperoxide
• EC number: • Additional information:	213-944-5 2,5-bis(tert-butylperoxy)-2,5-dimethylhex-3-yne (85% in white mineral oil)

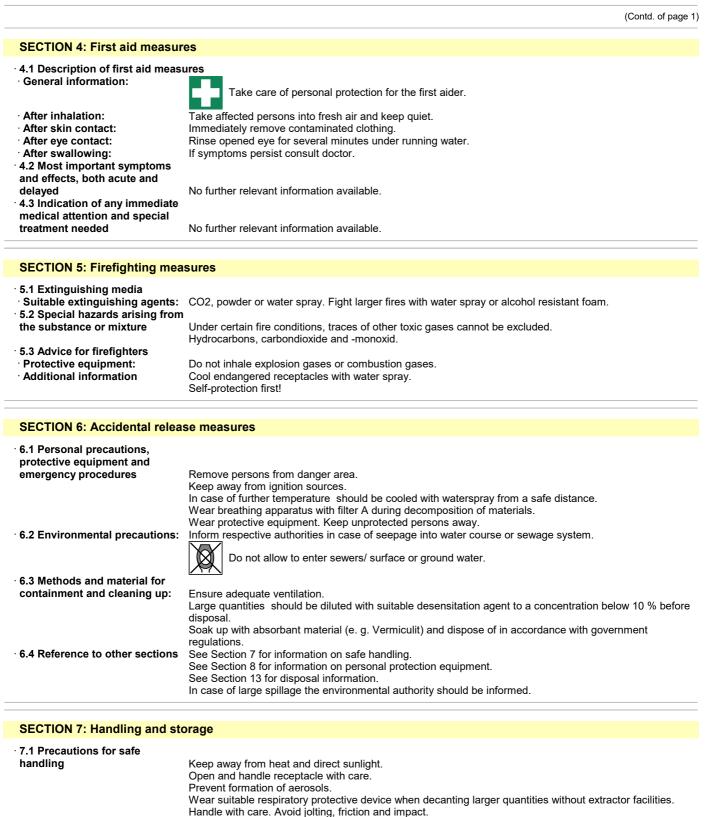
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Do not refill residue into storage receptacles. Restrict the quantity stored at the work place.

metal compounds and amines).

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-

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	While using do not eat, drink or smoke. (Contd. of page	
	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.	
	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 s	corage, including any incompatibilities	
Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.	
Requirements to be me	t by	
storerooms and recept	acles: Store only in the original receptacle. Prevent any seepage into the ground.	
	Use only receptacles specifically permitted for this substance/product.	
· Information about stora	ge in	
one common storage fa	cility: Do not store or park organic peroxide together with heavy metal compounds and amines. Store away from foodstuffs, drinks and feeding stuffs.	
· Further information abo		
storage conditions:	Protect from heat and direct sunlight.	
	Protect from contamination.	
· Recommended storage	Store under lock and key and with access restricted to technical experts or their assistants only.	
temperature (To mainta		
quality):	+10 +30 °C	
Storage class:	5.2	
7.3 Specific end use(s)	No further relevant information available.	
SECTION 8: Exposure	controls/personal protection	
-		
8.1 Control parameters Ingredients with limit va	lues	
that require monitoring		
workplace:	Not required.	
·DNELs		
	,4,4-tetramethylbut-2-yn-1,4-ylene diperoxide	
_	System 15 mg/kg bw/day (Worker)	
	System 10.58 mg/m3 (Worker)	
PNECs		
	,4,4-tetramethylbut-2-yn-1,4-ylene diperoxide	
PNEC Marinewater sed 2.		
	022 mg/l (-)	
	25.344 mg/kg sed dw (-)	
	3.568 mg/kg soil dw (-)	
	100 mg/l (AF 10)	
• Additional information:	002 mg/l (-) The lists valid during the making were used as basis.	
	The IISIS Valid during the making were used as basis.	
8.2 Exposure controls • Appropriate engineering		
controls	No further data; see section 7.	
Individual protection me	asures, 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.	

Store protective clothing separately. Do not eat, drink, smoke or sniff while working.

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	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 ventilated. Filter A2
Hand protection	· ······ · · ···
· 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 diffusion and the degradation
	Protective 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 be observed.
· Eye/face protection	Tightly sealed goggles
· Body protection:	Protective work clothing

SECTION 9: Physical and chemical properties

SECTION 9. Physical and chemical properties	
9.1 Information on basic physical and chemical properties	
General Information	
· Colour:	Yellowish
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	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:	69 °C
Decomposition temperature:	+80 °C (SADT)
· pH	Not determined.
· Viscosity:	
 Kinematic viscosity 	Not determined.
[·] Dynamic:	Not determined.
· 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:	0.88 g/cm ³
Relative density	Not determined.
· Vapour density	Not determined.
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
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· 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 ga	ases 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	9.4 - 9.6 %	

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. · Skin corrosion/irritation Based on available data, the classification criteria are not met. · Serious eye damage/irritation Based on available data, the classification criteria are not met. · Respiratory or skin Based on available data, the classification criteria are not met. sensitisation Based on available data, the classification criteria are not met. · Germ cell mutagenicity 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 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 None of the ingredients is listed. GB

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SECTION 12: Ecologica		
· 12.1 Toxicity		
• Aquatic toxicity:		
1068-27-5 di-tert-butyl 1,1	4,4-tetramethylbut-2-yn-1,4-ylene diperoxide	
EC50 6.17 mg/l (algae)		
12.2 Persistence and deg	radability	
 Degree of elimination: 		
· Classification:		
1068-27-5 di-tert-butyl 1,1,	4,4-tetramethylbut-2-yn-1,4-ylene diperoxide	
Degradation (Not readily b	iodegradable) (OECD 301 D)	
· 12.3 Bioaccumulative pot	ential	
Partition coefficient: nO	ctanol/water: [Log Kow]	
1068-27-5 di-tert-butyl 1,1,-	4,4-tetramethylbut-2-yn-1,4-ylene diperoxide	6,71
8042-47-5 White mineral o	il, petroleum	> 3,
· 12.4 Mobility in soil	No further relevant information available.	
· 12.5 Results of PBT and v	PvB assessment	
· 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	1	
properties	The product does not contain substances with endocrine disrupting properties.	
· 12.7 Other adverse effects		
 Additional ecological infe 	ormation:	
General notes:	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 quantities leak into the ground.	

SECTION 13: Disposal considerations

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

Waste disposal key:

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

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	UN3103
· 14.2 UN proper shipping name	
ADR	UN3103 ORGANIC PEROXIDE TYPE C, LIQUID (2,5-DIMETHYL-2,5-DI- (tert-BUTYLPEROXY) HEXYNE-3), ENVIRONMENTALLY HAZARDOUS
·IMDG	ORGANIC PEROXIDE TYPE C, LÍQUID (2,5-DIMETHYL-2,5-DI-(tert- BUTYLPEROXY) HEXYNE-3), MARINE POLLUTANT
·IATA	ORGANIC PERÓXIDE TYPE [´] C, LIQUID (2,5-DIMETHYL-2,5-DI-(tert- BUTYLPEROXY) HEXYNE-3)
· 14.3 Transport hazard class(es)	
ADR	
Class	5.2 (P1) Organic peroxides.
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·Label	5.2
· IMDG	
· Class	5.2 Organic peroxides.
·Label	5.2
· Class	5.2 Organic peroxides.
· Label	5.2
14.4 Packing group · ADR, IMDG, IATA	Void
14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user · Hazard identification number (Kemler code): · 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.
14.7 Maritime transport in bulk according to IMO instr	ruments Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	25 ml Code: E0 Not permitted as Excepted Quantity
· Transport category	1
Tunnel restriction code	D
· RID / GGVSEB:	like ADR
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	25 ml Code: E0 Not permitted as Excepted Quantity

SECTION 15: Regulatory information

 15.1 Safety, health and environ Poisons Act 	nmental regulations/legislation specific for the substance or mixture
Regulated explosives precur	sors
None of the ingredients is listed.	
· Regulated poisons	
None of the ingredients is listed.	
· Reportable explosives precu	rsors
None of the ingredients is listed.	
· Reportable poisons	
None of the ingredients is listed.	
 Directive 2012/18/EU Named dangerous substance ANNEX I Seveso category 	es Substance is not listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

E2 Hazardous to the Aquatic Environment

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 Qualifying quantity (tonnes) for the application of lower-tier 	r"
requirements	50 t
· Qualifying quantity (tonnes) for	***
the application of upper-tier	
requirements	200 t
DIRECTIVE 2011/65/EU on the	restriction of the use of certain hazardous substances in electrical and electronic equipment – Anne
None of the ingredients is listed.	
· Annex I - RESTRICTED EXPLO	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 c	n 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.	
National regulations:	
• Other regulations, limitations	and prohibitive regulations
· Please note:	Take care of the respective local regulations.
SECTION 16: Other informat	ion
This information is based on our p not establish a legally valid contra	present knowledge. However, this shall not constitute a guarantee for any specific product features and shal ctual relationship.
Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
Abbreviations and acronyms:	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)
	PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
	Org. Perox. C: Organic peroxides – Type C/D
* Data compared to the	Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
* * Data compared to the	

• * Data compared to the previous version altered.

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