

rision: 02.04.2024

Page 1/8	Safety data sheet according to Regulation (EC) No 1907/2006, Article 31	PERGA The Peroxide Com
Printing date 02.04.2024	Version: 14 (replaces version 13)	Revision: 02.0
SECTION 1: Identification of	the substance/mixture and of the company/undertaking	
· 1.1 Product identifier		
· Trade name:	PEROXAN HX	
CAS Number:	78-63-7	
 EC number: Registration number: 1.2 Relevant identified uses of the second second	201-128-1 01-2119875400-42 le substance or mixture and uses advised against	
· Application of the substance /	No further relevant information available.	
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:	Environment protection / Security of labour Qualified person: E-mail: msds@pergan.com	
 1.4 Emergency telephone number: 	- Tel: +49 2871 9902-0	
 2.1 Classification of the substan Classification according to Reg Org. Perox. C H242 Heating may Skin Irrit. 2 H315 Causes skin 2.2 Label elements 	ulation (EC) No 1272/2008 cause a fire.	
 Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms 	The substance is classified and labelled according to the CLP regulation.	
	GHS02 GHS07	
· Signal word	Danger	
 Hazard-determining components of labelling: Hazard statements 	2,5-Dimethyl-2,5-di-(tertbutylperoxy)-hexane H242 Heating may cause a fire.	
· Precautionary statements	H315 Causes skin irritation. P210 Keep away from heat, hot surfaces, sparks, open flames and c smoking.	ther ignition sources. No
	P234Keep only in original packaging.P264Wash thoroughly after handling.P280Wear protective gloves/protective clothing/eye protection/faceP370+P378In case of fire: Use CO2, powder or water spray to extinguish.P403Store in a well-ventilated place.P410Protect from sunlight.P411+P235Store at temperatures not exceeding +40°C. Keep cool.P420Store separately.P501Dispose of contents/container in accordance with local/regiona regulations.	
 2.3 Other hazards Results of PBT and vPvB asses 	sment	
· PBT: · vPvB:	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	
Determination of endocrine- disrupting properties	The product does not contain substances with endocrine disrupting properti	
disrupting properties SECTION 3: Composition/inf		es.

· 3.1 Substances · CAS No. Description

78-63-7 2,5-Dimethyl-2,5-di-(tert.-butylperoxy)-hexane

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Trade name: PEROXAN HX

- (Contd. of page 1) · Identification number(s) · EC number: 201-128-1 **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: 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 No further relevant information available. delayed 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.
 - Hydrocarbons, carbondioxide and -monoxid. 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!

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	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 guantities without extractor facilities.	
	Do not refill residue into storage receptacles.	
		• •



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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. heal metal compounds and amines). While using do not eat, trink to smoke. Avoid shock and friction. Void shock and friction. Protect from heat Protect from heat Protect from heat or more and priction. Further information about fire - and storage: Pay attention to the special requirements of your local autorithies for storing dangerous goods. Pay attention to the special receptacle. Provent impact and lice ground. Store only in the original receptacle. Provent any seepage into the ground. Use only receptacles specifically permitted for this substance/product. Information about storage facility. Further information about storage conditions: * Recommended storage temperature (To maintain quality): * 10 +40 °C * Storage class: * 1.1A		Restrict the quantity stored at the work place.
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Storage class: 4.1A		
7.3 Specific end use(s) No further relevant information available.		
	7.3 Specific end use(s)	No further relevant information available.
SECTION 8: Exposure controls/personal protection	SECTION 8: Exposure contro	als/personal protection

8.1 Control parameters Ingredients with limit	values	
that require monitorin workplace:	Not required.	
DNELs		
78-63-7 2,5-Dimethyl-2,	,5-di-(tertbutylperoxy)-hexane	
Dermal DNEL Longte	erm System 15 mg/kg bw/day (Worker)	
Inhalative DNEL Longte	erm System 11 mg/m3 (Worker)	
PNECs		
78-63-7 2,5-Dimethyl-2,	,5-di-(tertbutylperoxy)-hexane	
PNEC Marinewater sed	7,22 mg/kg sed dw (-)	
PNEC Freshwater	0,00065 mg/l (AF 10)	
PNEC Freshwater sed	72,2 mg/kg sed dw (-)	
PNEC Soil	14,4 mg/kg soil dw (-)	
PNEC STP	100 mg/l (AF 10)	
PNEC Marinewater	0,000065 mg/l (AF 100)	
· Additional informatio	n: The lists valid during the making were used as basis.	
 8.2 Exposure controls Appropriate engineeri controls 		(Contd. on page 4)
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res, such as personal protective equipment
The your presentioner, measures are to be adhered to when bandling chemicals
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 eves 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.
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
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
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
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be
observed.
Tightly sealed goggles
rightly sealed goggles
Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Physical state	Fluid
· Colour:	colourless - yellowish
· Odour:	Characteristic
· Odour threshold:	Not determined.
 Melting point/freezing point: 	< 10 °C
 Boiling point or initial boiling point and boiling range 	Not applicable.
Flammability	May cause fire.
· Lower and upper explosion limit	•
· Lower:	Not determined.
· Upper:	Not determined.
Flash point:	≥ 68 °C
Decomposition temperature:	+80 °C (SADT)
· pH	Not determined.
Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	8 mPas
Solubility	
water:	Undetermined.
Partition coefficient n-octanol/water (log value) at 20 °C	7,34 log POW
Vapour pressure at 20 °C:	<0,01 hPa
Density and/or relative density	-) -
Density at 20 °C:	0,88 g/cm ³
Relative density	Not determined.
· Vapour density	Not determined.
	(Contd. on page 5)

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The Peroxide Company

Trade name: **PEROXAN HX**

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9.2 Other information	
Appearance:	
· Form:	Fluid
Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Not determined.
Explosive properties:	Risk of explosion by shock, friction, fire or other sources of ignition.
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	> 9,9 %

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 Info · Acute to			ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.	
· LD/LC	50 valı	ues relevant for cla	assification:	
78-63-7	2,5-Dii	methyl-2,5-di-(tert.	-butylperoxy)-hexane	
Oral	LD50	>2.000 mg/kg (rattu	JS)	
Dermal	LD50	>2.000 mg/kg (rab	pit)	
		n/irritation	Causes skin irritation.	
 Serious 	s eye c	lamage/irritation	Based on available data, the classification criteria are not met.	
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 Respiratory or skin sensitisation 	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	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	Based on available data, the classification criteria are not met.	
 Aspiration hazard 11.2 Information on other haz 	Based on available data, the classification criteria are not met.	
Endocrine disrupting proper		
None of the ingredients is listed		
SECTION 12: Ecological in	formation	
	iomation	
12.1 Toxicity	No further relevant information available.	
 Aquatic toxicity: 12.2 Persistence and degrada 		
· Degree of elimination:	.onty	
· Classification:		
78-63-7 2,5-Dimethyl-2,5-di-(te	rtbutylperoxy)-hexane	
Degradation (Not readily biode	gradable) (OECD 301 D)	
12.3 Bioaccumulative potentia	al	
· Partition coefficient: nOctan	ol/water: [Log Kow]	
78-63-7 2,5-Dimethyl-2,5-di-(te	ertbutylperoxy)-hexane	7,34 (20°C
75-65-0 2-methylpropan-2-ol		0,32 (20°C
110-05-4 di-tert-butyl peroxide		3,2 (22°C)
· Bioconcentration factor (BCF	,	
78-63-7 2,5-Dimethyl-2,5-di-(te	,	
78-63-7 2,5-Dimethyl-2,5-di-(te BCF 521-839	ertbutylperoxy)-hexane	
78-63-7 2,5-Dimethyl-2,5-di-(te BCF 521-839 12.4 Mobility in soil	No further relevant information available.	
78-63-7 2,5-Dimethyl-2,5-di-(te BCF 521-839 12.4 Mobility in soil 12.5 Results of PBT and vPvB	No further relevant information available.	
78-63-7 2,5-Dimethyl-2,5-di-(te BCF 521-839 12.4 Mobility in soil 12.5 Results of PBT and vPvB PBT:	No further relevant information available. 3 assessment This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
78-63-7 2,5-Dimethyl-2,5-di-(te BCF 521-839 12.4 Mobility in soil 12.5 Results of PBT and vPvB • PBT: • vPvB:	No further relevant information available.	
78-63-7 2,5-Dimethyl-2,5-di-(te BCF 521-839 12.4 Mobility in soil 12.5 Results of PBT and vPvB • PBT: • vPvB: 12.6 Endocrine disrupting	Prtbutylperoxy)-hexane No further relevant information available. B 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.	
78-63-7 2,5-Dimethyl-2,5-di-(te BCF 521-839 12.4 Mobility in soil 12.5 Results of PBT and vPvB PBT: vPvB: 12.6 Endocrine disrupting properties	No further relevant information available. 3 assessment This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
78-63-7 2,5-Dimethyl-2,5-di-(te BCF 521-839 12.4 Mobility in soil 12.5 Results of PBT and vPvB • PBT: • vPvB: 12.6 Endocrine disrupting	A 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. This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. The product does not contain substances with endocrine disrupting properties.	

· 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)- 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	
		(Contd. on page 7)



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44.0 UN mener chiming neme	(Contd. of pag	
· 14.2 UN proper shipping name · ADR	UN3103 ORGANIC PEROXIDE TYPE C, LIQUID (2,5-DIMETHYL-2,5-DI	
	(tertBUTYLPEROXY)-HEXANE)	
· IMDG, IATA	ORGANIC PEROXIDE TYPE C, LIQUID (2,5-DIMETHYL-2,5-DI-(tert	
	BUTYLPEROXY)-HEXANE)	
 14.3 Transport hazard class(es) 		
ADR		
Class	5.2 (P1) Organic peroxides.	
·Label	5.2	
· IMDG, IATA		
· Class · Label	5.2 Organic peroxides. 5.2	
	5.2	
 14.4 Packing group ADR, IMDG, IATA 	Void	
· 14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Warning: Organic peroxides.	
· 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.	
· 14.7 Maritime transport in bulk according to IMO instr		
	unients Not applicable.	
• Transport/Additional information:		
· ADR	25 ml	
 Limited quantities (LQ) Excepted quantities (EQ) 	25 ml Code: E0	
Excepted quantities (EQ)	Not permitted as Excepted Quantity	
Transport category		
· Tunnel restriction code	D	
· RID / GGVSEB:	like ADR	
·IMDG		
· Limited quantities (LQ)	25 ml	
Excepted quantities (EQ)	Code: E0	
	Not permitted as Excepted Quantity	

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU	
· Named dangerous substances	
- ANNEX I	Substance is not listed.
 Seveso category 	P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
Qualifying quantity (tonnes) for	
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: 3



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(Contd. of page 7) · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex Ш None of the ingredients is listed. · REGULATION (EU) 2019/1148 · Regulation (EC) No 273/2004 on drug precursors None of the ingredients is listed. • Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors 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. · Contact: Tel: +49 2871 9902-0 E-mail: mail@pergan.com · Version number of previous version: 13 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 · Abbreviations and acronyms: INDEX International Air Transport Association 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 (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. C: Organic peroxides – Type C/D Skin Irrit. 2: Skin corrosion/irritation – Category 2 * * Data compared to the previous version altered.