

Printing date 02.04.2024

Version: 10 (replaces version 9)

Revision: 16.02.2023

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

· 1.1 Product identifier

PEROXAN HX-50 W

· Trade name:	PERUXAN HX-50 W
· 1.2 Relevant identified uses of the	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 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: 1.4 Emergency telephone number: 	Environment protection / Security of labour Qualified person: E-mail: msds@pergan.com - Tel: +49 2871 9902-0
SECTION 2: Hazards identific	cation

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

Org. Perox. F H242 Heating may cause a fire. Skin Irrit. 2 H315 Causes skin irritation.

· 2.2 Label elements

 Labelling according to Regulation (EC) No 1272/20 Hazard pictograms

Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

GHS02	GHS07

· Signal word	Warning
 Hazard-determining components of labelling: Hazard statements 	2,5-Dimethyl-2,5-di-(tertbutylperoxy)-hexane H242 Heating may cause a fire. H315 Causes skin irritation.
 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. P264 Wash thoroughly after handling. 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. P410 Protect from sunlight. P411+P235 Store at temperatures not exceeding +40°C. Keep cool.
· 2.3 Other hazards	P420 Store separately. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
Results of PBT and vPvB asse	ment
· PBT: · vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII. The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components:			
CAS: 78-63-7	2,5-Dimethyl-2,5-di-(tertbutylperoxy)-hexane	Org. Perox. C, H242; Skin Irrit. 2, H315	50-60%
EINECS: 201-128-1			
Reg-No.: 01-2119875400-42			
• Additional information:	For the wording of the listed hazard phrases refer to s	ection 16.	-

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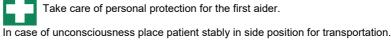
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SECTION 4: First aid measures · 4.1 Description of first aid measures

General information:



- · 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.

Immediately remove contaminated clothing.

If symptoms persist consult doctor.

Take affected persons into fresh air and keep quiet.

Immediately wash with water and soap and rinse thoroughly.

Rinse opened eye for several minutes under running water.

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media 5.2 Special hazards arising from

• Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

the substance or mixture

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.
· 6.2 Environmental precautions:	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 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.
	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.

(Contd. on page 3) GB -

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

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		ontd. of page
	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.	
	Do not smoke.	
· Information about fire - and	$\mathbf{\bullet}$	
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.	
	Avoid open names, sparks, direct sunlight and other sources of ignition.	
	Keep ignition sources away - Do not smoke.	
7.2 Conditions for safe storage,		
· 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.	
	Use only receptacles specifically permitted for this substance/product.	
 Information about storage in one common storage facility: 	Do not ators or park organic perovide together with because metal compounds and aminor	
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		
storage conditions:	Protect from heat and direct sunlight.	
· Recommended storage	Protect from contamination.	
temperature (To maintain		
quality):	+5 +40 °C	
7.3 Specific end use(s)	No further relevant information available.	
SECTION 8: Exposure control	ols/personal protection	
 8.1 Control parameters Ingredients with limit values 		
that require monitoring at the		
workplace:	The product does not contain any relevant quantities of materials with critical values that have monitored at the workplace.	to be
DNELs	· · · ·	

DNELs			
78-63-7 2,5-Dimethyl-2,5-di-(tertbutylperoxy)-hexane			
Dermal DNEL Longt	rm System 15 mg/kg bw/day (Worker)		
Inhalative DNEL Longterm 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 information	n: The lists valid during the making were used as basis.		
• 8.2 Exposure controls • Appropriate engineering controls No further data; see section 7. • Individual protection measures, 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 (Contd. on page 4)		

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

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		(Contd. of page
	Wash hands before breaks a	
	Store protective clothing sep	
	Avoid close or long term con Avoid contact with the eyes	
	Do not eat, drink, smoke or	
	Use skin protection cream for	
		ghly after work and before breaks.
Respiratory protection:	Not necessary if room is wel	I-ventilated.
		tar device when it evened eveneouse limit and when incufficiently ventilated
	Use suitable respira	tory device when it exceed exposure limit and when insufficiently ventilated.
	Filter A2	
· Hand protection	Only use chemical-protective	e gloves with CE-labelling of category III.
		e material on consideration of the penetration times, rates of diffusion and th
	degradation	
	Protective gloves	
· Material of gloves		gloves does not only depend on the material, but also on further marks of
	quality and varies from man	
	Butyl rubber, BR	
	Fluorocarbon rubber (Viton)	
	Nitrile rubber, NBR	
· Penetration time of glove	Neoprene	
material	The exact break trough time	has to be found out by the manufacturer of the protective gloves and has to
material	observed.	
Eye/face protection		
	Tightly sealed gogg	es
De de constantia es		
Body protection:	Protective work clot	bing
	FIOLECLIVE WORK CIOL	ling
9.1 Information on basic phys	sical and chemical properties	
General Information	sical and chemical properties	
General Information	sical and chemical properties	colourless - yellowish
General Information Colour: Odour:	sical and chemical properties	Characteristic
General Information Colour: Odour: Odour threshold:		Characteristic Not determined.
General Information Colour: Odour: Odour threshold: Melting point/freezing point:	:	Characteristic Not determined. Not applicable.
General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin	:	Characteristic Not determined.
General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion	e point and boiling range	Characteristic Not determined. Not applicable. Not applicable.
General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower:	e point and boiling range	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined.
General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper:	e point and boiling range	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined. Not determined.
General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point:	g point and boiling range limit	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined. Not determined. > SADT
General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature	g point and boiling range limit	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT)
General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH	g point and boiling range limit	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined. Not determined. > SADT
General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH	g point and boiling range limit	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT)
General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH Viscosity:	g point and boiling range limit	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT) Not determined.
General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH Viscosity: Kinematic viscosity Dynamic at 20 °C:	g point and boiling range limit	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT) Not determined. Not determined.
General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH Viscosity: Kinematic viscosity Dynamic at 20 °C: Solubility water:	g point and boiling range limit	Characteristic Not determined. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT) Not determined. 35 mPas Undetermined.
General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH Viscosity: Kinematic viscosity Dynamic at 20 °C: Solubility water: Partition coefficient n-octane	g point and boiling range limit	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT) Not determined. 35 mPas Undetermined. not determined.
General Information Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH Viscosity: Kinematic viscosity Dynamic at 20 °C: Solubility water: Partition coefficient n-octane Vapour pressure:	g point and boiling range limit ::	Characteristic Not determined. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT) Not determined. 35 mPas Undetermined.
General Information Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH Viscosity: Kinematic viscosity Dynamic at 20 °C: Solubility water: Partition coefficient n-octane Vapour pressure: Density and/or relative densi	g point and boiling range limit ::	Characteristic Not determined. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT) Not determined. Not determined. 35 mPas Undetermined. not determined. Not determined.
General Information Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH Viscosity: Kinematic viscosity Dynamic at 20 °C: Solubility water: Partition coefficient n-octand Vapour pressure: Density and/or relative dens Density at 20 °C:	g point and boiling range limit ::	Characteristic Not determined. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT) Not determined. Not determined. 35 mPas Undetermined. not determined. Not determined. 0.867 g/cm ³
General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH Viscosity: Kinematic viscosity Dynamic at 20 °C: Solubility water: Partition coefficient n-octand Vapour pressure: Density and/or relative densi Density at 20 °C: Relative density	g point and boiling range limit ::	Characteristic Not determined. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT) Not determined. Not determined. 35 mPas Undetermined. not determined. Not determined.
General Information Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH Viscosity: Kinematic viscosity Dynamic at 20 °C: Solubility water: Partition coefficient n-octand Vapour pressure: Density and/or relative densi Density at 20 °C: Relative density Vapour density	g point and boiling range limit ::	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT) Not determined. Not determined. 35 mPas Undetermined. not determined. Not determined. Not determined. Not determined. Not determined. Not determined.
General Information Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH Viscosity: Kinematic viscosity Dynamic at 20 °C: Solubility water: Partition coefficient n-octand Vapour pressure: Density and/or relative densi Density at 20 °C: Relative density Vapour density O2 Other information	g point and boiling range limit ::	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT) Not determined. Not determined. 35 mPas Undetermined. not determined. Not determined. Not determined. Not determined. Not determined. Not determined.
General Information Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion · Lower: · Upper: Flash point: Decomposition temperature pH Viscosity: · Kinematic viscosity · Dynamic at 20 °C: · Solubility · water: Partition coefficient n-octand · Vapour pressure: Density and/or relative dens · Density at 20 °C: · Relative density · Vapour density · Z Other information Appearance:	g point and boiling range limit ::	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT) Not determined. 35 mPas Undetermined. not determined. Not determined.
General Information Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH Viscosity: Kinematic viscosity Dynamic at 20 °C: Solubility water: Partition coefficient n-octand Vapour pressure: Density and/or relative densits Density at 20 °C: Relative density Vapour density 2.2 Other information Appearance: Form:	: ig point and boiling range limit : ol/water (log value)	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT) Not determined. 35 mPas Undetermined. not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.
General Information Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH Viscosity: Kinematic viscosity Dynamic at 20 °C: Solubility water: Partition coefficient n-octand Vapour pressure: Density and/or relative densi Density at 20 °C: Relative density Vapour density 9.2 Other information Appearance: Form: Important information on pro	g point and boiling range limit ::	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT) Not determined. 35 mPas Undetermined. not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.
General Information Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH Viscosity: Kinematic viscosity Dynamic at 20 °C: Solubility water: Partition coefficient n-octand Vapour pressure: Density and/or relative densit Density at 20 °C: Relative density Vapour density 9.2 Other information Appearance: Form:	: ig point and boiling range limit : ol/water (log value)	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT) Not determined. 35 mPas Undetermined. not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Fluid
General Information Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boilin Flammability Lower and upper explosion Lower: Upper: Flash point: Decomposition temperature pH Viscosity: Kinematic viscosity Dynamic at 20 °C: Solubility water: Partition coefficient n-octand Vapour pressure: Density and/or relative dens Density at 20 °C: Relative density Vapour density 9.2 Other information Appearance: Form: Important information on pro and on safety.	: ig point and boiling range limit : ol/water (log value)	Characteristic Not determined. Not applicable. Not applicable. Not applicable. Not determined. > SADT +90 °C (SADT) Not determined. 35 mPas Undetermined. not determined. Not determined. Not determined. Not determined. Not determined. Not determined.

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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 i	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	

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 class Acute toxicity 	ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.	
· LD/LC50 values relevant for cla	assification:	
78-63-7 2,5-Dimethyl-2,5-di-(tert.	-butylperoxy)-hexane	
Oral LD50 >2,000 mg/kg (ratti	JS)	
Dermal LD50 >2,000 mg/kg (rabl	pit)	
Skin corrosion/irritation	Causes skin irritation.	
• Serious eye damage/irritation	Based on available data, the classification criteria are not met.	
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 	Based on available data, the classification criteria are not met.	
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· 11.2 Information on other hazards

Endocrine disrupting property	es			
None of the ingredients is listed.				
SECTION 12: Ecological in	formation			
12.1 Toxicity				
Aquatic toxicity:	No further relevant information available.			
12.2 Persistence and degrada	bility			
Degree of elimination: Classification:				
78-63-7 2,5-Dimethyl-2,5-di-(te				
Degradation (Not readily biode				
12.3 Bioaccumulative potentia				
• Partition coefficient: nOctan				
78-63-7 2,5-Dimethyl-2,5-di-(7,34 (20°C		
8042-47-5 White mineral oil, pe	roleum	> 3,5		
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	tbutylperoxy)-hexane			
BCF 521-839				
12.4 Mobility in soil	No further relevant information available.			
 12.5 Results of PBT and vPvB PBT: 				
· PBT: · vPvB:	The substances in the mixture do not meet the PBT/vPvB crit The substances in the mixture do not meet the PBT/vPvB crit			
12.6 Endocrine disrupting				
properties	The product does not contain substances with endocrine disr	upting properties.		
12.7 Other adverse effects				
Additional ecological information				
· General notes:	Water hazard class 1 (German Regulation) (Self-assessment Do not allow undiluted product or large quantities of it to reacl system.			

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 system.
· Waste disposal key:	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.

UN3109	
UN3109 ORGANIC PEROXIDE TYPE F, LIQUID (2,5-DIMETHYL-2,5-DI- (tertBUTYLPEROXY)-HEXANE) ORGANIC PEROXIDE TYPE F, LIQUID (2,5-DIMETHYL-2,5-DI-(tert	
BUTYLPEROXY)-HEXANE) (Contd. on page 7)	



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14.3 Transport hazard class(es)		
ADR		
¥		
· Class · Label	5.2 (P1) Organic peroxides.	
	5.2	
· IMDG, IATA		
8		
· Class	5.2 Organic peroxides.	
· Label	5.2 5.2	
14.4 Packing group	•	
· ADR, IMDG, IATA	Void	
14.5 Environmental hazards:		
• Marine pollutant:	No	
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.	
· Segregation Code	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 to IMO instru		
• Transport/Additional information:	unents Not applicable.	
·		
· ADR · Limited quantities (LQ)	125 ml	
• Excepted quantities (EQ)	Code: E0	
Excepted quantities (EQ)	Not permitted as Excepted Quantity	
· Transport category	2	
• Tunnel restriction code	D	
· RID / GGVSEB:	like ADR	
·IMDG		
· Limited quantities (LQ)	125 ml	
Excepted quantities (EQ)	Code: E0	
	Not permitted as Excepted Quantity	

SECTION 15: Regulatory information

 15.1 Safety, health and environm Poisons Act 	ental regulations/legislation specific for the substance or mixture	
· Regulated explosives precurso	rs	
None of the ingredients is listed.		
· Regulated poisons		
None of the ingredients is listed.		
· Reportable explosives precurse	ors	
None of the ingredients is listed.		
· Reportable poisons		
None of the ingredients is listed.		
 Directive 2012/18/EU Qualifying quantity (tonnes) for the application of lower-tier 		
requirements Qualifying quantity (tonnes) for the application of upper-tier	50 t	
requirements	200 t (Contd. on pa	age 8 GB —



Version: 10 (replaces version 9)



Revision: 16.02.2023

GB —

Trade name: PEROXAN HX-50 W

	(Contd. of pag
DIRECTIVE 2011/65/EU on the II	restriction of the use of certain hazardous substances in electrical and electronic equipment – Ann
None of the ingredients is listed.	
•	DSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
· Annex II - REPORTABLE EXPL	
None of the ingredients is listed.	
Regulation (EC) No 273/2004 c	on 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.
not establish a legally valid contra	
· Relevant phrases	H242 Heating may cause a fire. H315 Causes skin irritation.
Department issuing SDS:	Environment protection / Security of labour
Contact:	Tel: +49 2871 9902-0 E-mail: mail@pergan.com
Abbreviations and acronyms:	E-ITIAII: ITIAII@pergan.com 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 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) DNEL: Derived No-Effect Level (UK REACH)
	PNEC: Predicted No-Effect Concentration (ÚK 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 Org. Perox. F: Organic peroxides – Type E/F
	Skin Irrit. 2: Skin corrosion/irritation – Category 2