

Printing date 03.04.2024

Version: 9 (replaces version 8)

Revision: 20.12.2022

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

· 1.1 Product identifier

the mixture

PERGAPROP HX-7.5 PP

Trade name:
 ECGAPROP IN-7.3 PP
 1.2 Relevant identified uses of the substance or mixture and uses advised against
 No further relevant information available.
 Application of the substance /

Reaction initiator For industrial use

• 1.3 Details of the supplier of the 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:	Qualified person: E-mail: msds@pergan.com		
¹ .4 Emergency telephone			
number:	- Tel: +49 2871 9902-0		

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture · Classification according to			
Regulation (EC) No 1272/2008	The product is not classified, according to the CLP regulation.		
 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms Signal word 	Void Void Void		
 Hazard-determining components of labelling: Hazard statements 2.3 Other hazards 	2,5-Dimethyl-2,5-di-(tertbutylperoxy)-hexane Void		
 Results of PBT and vPvB asses 	ssment		
· PBT: · vPvB:	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.		
Determination of endocrine- disrupting properties	The product does not contain substances with endocrine disrupting properties.		
· vPvB: · Determination of endocrine-	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.		

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures · Dangerous components: CAS: 78-63-7 EINECS: 201-128-1 Reg-No.: 01-2119875400-42 · Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measured	ures
General information:	No special measures required.
 After inhalation: 	Supply fresh air, consult doctor in case of complaints.
· After skin contact:	Generally the product does not irritate the skin.
· 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.

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SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture
- 5.3 Advice for firefighters

· Protective equipment:

Additional information

Do not inhale explosion gases or combustion gases. Self-protection first!

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- 6.2 Environmental precautions:

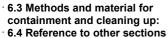


Under certain fire conditions, traces of other toxic gases cannot be excluded.



Do not allow to enter sewers/ surface or ground water.

Wear protective equipment. Keep unprotected persons away.



Pick up mechanically. 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 	No special measures required. Keep receptacles tightly sealed. Store in cool, dry place in tightly closed receptacles. Open and handle receptacle with care. Prevent formation of dust. Avoid shock and friction.
 Information about fire - and explosion protection: 	Prevent impact and friction.
 7.2 Conditions for safe storage, Storage: Requirements to be met by storerooms and receptacles: Information about storage in one common storage facility: Further information about storage conditions: 	including any incompatibilities Store in a cool location. Not required. Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. Protect from contamination. Store in a cool place.
 Recommended storage temperature (To maintain quality): Storage class: 7.3 Specific end use(s) 	+10 +40 °C 11 No further relevant information available.

SECTION 8: Exposure controls/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 to be monitored at the workplace.
· DNELs	
78-63-7 2,5-Dimethyl-2,5-di-(tert.	-butylperoxy)-hexane

DNEL Longterm System 15 mg/kg bw/day (Worker) Dermal

Inhalative DNEL Longterm System 11 mg/m3 (Worker)

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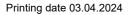
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PNECs	(Contd. of pag		
78-63-7 2,5-Dimethyl-2,5-di-(tertbutylperoxy)-hexane			
PNEC Marinewater sed 7,22 mg/kg sed dw (-)			
PNEC Freshwater 0,00065 mg/l (AF 10)			
o ()			
	72,2 mg/kg sed dw (-)		
	14,4 mg/kg soil dw (-)		
PNEC STP 100 mg/l (AF 10)			
PNEC Marinewater 0,000065 mg/l (AF 100)			
5	naking were used as basis.		
8.2 Exposure controls Appropriate engineering controls No further data; see section Individual protection measures, such as personal protection			
Immediately remove all so	The usual precautionary measures are to be adhered to when handling chemicals. Immediately remove all soiled and contaminated clothing Store protective clothing separately.		
• Respiratory protection:			
• Hand protection Not required.			
Material of gloves The selection of the	he suitable gloves does not only depend on the material, but also on further and varies from manufacturer to manufacturer.		
· Penetration time of glove			
material The exact break trough tim observed.	ne has to be found out by the manufacturer of the protective gloves and has to		
• Eye/face protection Tightly sealed gog	ggles		
9.1 Information on basic physical and chemical properties General Information	5		
· Physical state	Solid		
· Colour:	white - 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 · Lower and upper explosion limit	May cause fire.		
· Lower and upper explosion limit			
•• •	Not determined		
· Lower:	Not determined. Not determined		
Lower: Upper:	Not determined. Not determined. Not applicable.		
Lower: Upper: Flash point:	Not determined.		
Lower: Upper: Flash point: Decomposition temperature: pH	Not determined. Not applicable.		
Lower: Upper: Flash point: Decomposition temperature: pH Viscosity:	Not determined. Not applicable. +80 °C (SADT) Not applicable.		
Lower: Upper: Flash point: Decomposition temperature: pH Viscosity: Kinematic viscosity	Not determined. Not applicable. +80 °C (SADT) Not applicable. Not applicable.		
Lower: Upper: Flash point: Decomposition temperature: pH Viscosity: Kinematic viscosity Dynamic:	Not determined. Not applicable. +80 °C (SADT) Not applicable.		
Lower: Upper: Flash point: Decomposition temperature: pH Viscosity: Kinematic viscosity Dynamic: Solubility	Not determined. Not applicable. +80 °C (SADT) Not applicable. Not applicable. Not applicable.		
Lower: Upper: Flash point: Decomposition temperature: pH Viscosity: Kinematic viscosity Dynamic: Solubility water:	Not determined. Not applicable. +80 °C (SADT) Not applicable. Not applicable.		
Lower: Upper: Flash point: Decomposition temperature: pH Viscosity: Kinematic viscosity Dynamic: Solubility water:	Not determined. Not applicable. +80 °C (SADT) Not applicable. Not applicable. Not applicable. Undetermined. not determined		
 Lower: Upper: Flash point: Decomposition temperature: pH Viscosity: Kinematic viscosity Dynamic: Solubility water: Partition coefficient n-octanol/water (log value) 	Not determined. Not applicable. +80 °C (SADT) Not applicable. Not applicable. Undetermined. not determined Not determined.		
 Lower: Upper: Flash point: Decomposition temperature: pH Viscosity: Kinematic viscosity Dynamic: Solubility water: Partition coefficient n-octanol/water (log value) Vapour pressure: Density and/or relative density Density: 	Not determined. Not applicable. +80 °C (SADT) Not applicable. Not applicable. Undetermined. not determined Not determined.		
 Lower: Upper: Flash point: Decomposition temperature: pH Viscosity: Kinematic viscosity Dynamic: Solubility water: Partition coefficient n-octanol/water (log value) Vapour pressure: Density and/or relative density Density: Relative density 	Not determined. Not applicable. +80 °C (SADT) Not applicable. Not applicable. Undetermined. not determined Not determined. Not applicable.		
 Lower: Upper: Flash point: Decomposition temperature: pH Viscosity: Kinematic viscosity Dynamic: Solubility water: Partition coefficient n-octanol/water (log value) Vapour pressure: Density and/or relative density Density: Relative density Vapour density 	Not determined. Not applicable. +80 °C (SADT) Not applicable. Not applicable. Undetermined. not determined Not determined. Not applicable. Not applicable.		
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9.2 Other information		
· Appearance:		
Form:	Granulate	
Important information on protection of health and environment,		
and on safety.		
· Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Solvent content:		
· Water:	0,0 %	
· Solids content:	91,7 %	
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	
 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	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	
Other safety characteristics		
· Active oxygen	0,7 - 0,9 %	

SECTION 10: Stability and reactivity

 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / 	No further relevant information available.
conditions to be avoided:	No decomposition if used and stored according to specifications.
• 10.3 Possibility of hazardous	
reactions	No dangerous reactions known.
 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:	No hazardous decomposition products if used and stored according to specifications.

SECTION 11: Toxicological information

 11.1 Information on hazard clas Acute toxicity 	sses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.	
· LD/LC50 values relevant for cl	lassification:	
78-63-7 2,5-Dimethyl-2,5-di-(tert	:butylperoxy)-hexane	
Oral LD50 >2.000 mg/kg (ratt	tus)	
Dermal LD50 >2.000 mg/kg (rab	bbit)	
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		
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.	
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· Aspiration hazard · 11.2 Information on other haz	Based on available data, the classification criteria are not met.	(Contd. of page
· Endocrine disrupting properties		
None of the ingredients is listed		
SECTION 12: Ecological in	formation	
 12.1 Toxicity Aquatic toxicity: 12.2 Persistence and degrada Degree of elimination: 	No further relevant information available. bility	
· Classification:		
78-63-7 2,5-Dimethyl-2,5-di-(te	rtbutylperoxy)-hexane	
Degradation (Not readily biode		
12.3 Bioaccumulative potenti	al	
Partition coefficient: nOctar	ol/water: [Log Kow]	
78-63-7 2,5-Dimethyl-2,5-di-(t	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 (BCI	.)	
78-63-7 2,5-Dimethyl-2,5-di-(te		
BCF 521-839		
 12.4 Mobility in soil 12.5 Results of PBT and vPvE 	No further relevant information available. assessment	
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria account	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria acco	ording to REACH, annex XIII.
· 12.6 Endocrine disrupting	The weed of deep wet contain substances with endeeping dismustice was	
properties · 12.7 Other adverse effects	The product does not contain substances with endocrine disrupting pr	operiles.
Additional ecological inform	ation:	
· General notes:	Water hazard class 1 (German Regulation) (Self-assessment): slightly Do not allow undiluted product or large quantities of it to reach ground system.	

SECTION 13: Disposal considerations		
 13.1 Waste treatment methods Recommendation Waste disposal key: 	Smaller quantities can be disposed of with household waste. Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)- number.	
· Uncleaned packaging: · Recommendation:	Disposal must be made according to official regulations.	

SECTION 14: Transport information

SECTION 14: Transport Information		
 14.1 UN number or ID number ADR, IMDG, IATA 	Void	
 14.2 UN proper shipping name ADR, IMDG, IATA 	Void	
· 14.3 Transport hazard class(es)		
· ADR, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Maritime transport in bulk according to IM	O instruments Not applicable.	
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· Transport/Additional information:	No dangerous good according the regulation of transport.
· ADR	
· RID / GGVSEB:	like ADR
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 None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
 None of the ingredients is listed.

REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· 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.

Relevant phrases	H242 Heating may cause a fire.
-	H315 Causes skin irritation.
· Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
 Version number of previous 	
version:	8
 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
	ELINCS: European List of Notified 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.