Printing date 03.04.2024

Version: 9 (replaces version 8)

Revision: 16.02.2023

IE -

The Peroxide Company

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

· 1.1 Product identifier

PERGAPROP HX-20 PP

Trade name:
 1.2 Relevant identified uses 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 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

SECTION 2: Hazards identification

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

Org. Perox. EH242 Heating may cause a fire.Skin Irrit. 2H315 Causes skin irritation.

 2.2 Label elements
 Labelling according to Regulation (EC) No 1272/200
 Hazard pictograms

Regulation (EC) No 1272/2008 The product is classified and labelled according to the 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.		
	P362 Take off contaminated clothing.		
	P410 Protect from sunlight.		
	P411+P235 Store at temperatures not exceeding +40°C. Keep cool.		
	P420 Store separately.		
	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.		
· 2.3 Other hazards	5		
Results of PBT and vPvB asse	ssment		
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.		
· vPvB:	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.		

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

 Dangerous components: 		
CAS: 78-63-7 EINECS: 201-128-1 Reg-No.: 01-2119875400-42	Org. Perox. C, H242; Skin Irrit. 2, H315	20-25%
	(Contd.	on page 2)

Printing date 03.04.2024

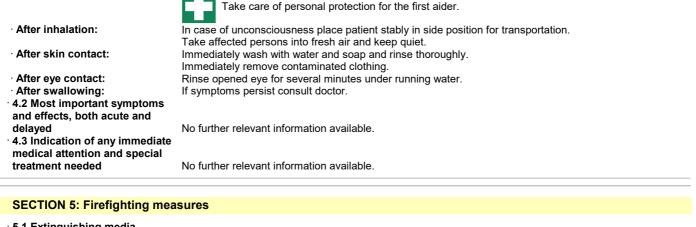
Version: 9 (replaces version 8)



Revision: 16.02.2023

Trade name: PERGAPROP HX-20 PP

• Additional information:	For the wording of the listed hazard phrases refer to section 16.	(Contd. of page 1)
SECTION 4: First aid meas	sures	
• 4.1 Description of first aid me • General information:	easures	



- · 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.
	Pick up mechanically, collect in a suitable receptacle and dispose 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 dust.
	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).
	(Contd. on page 3

(Contd. on page 3)

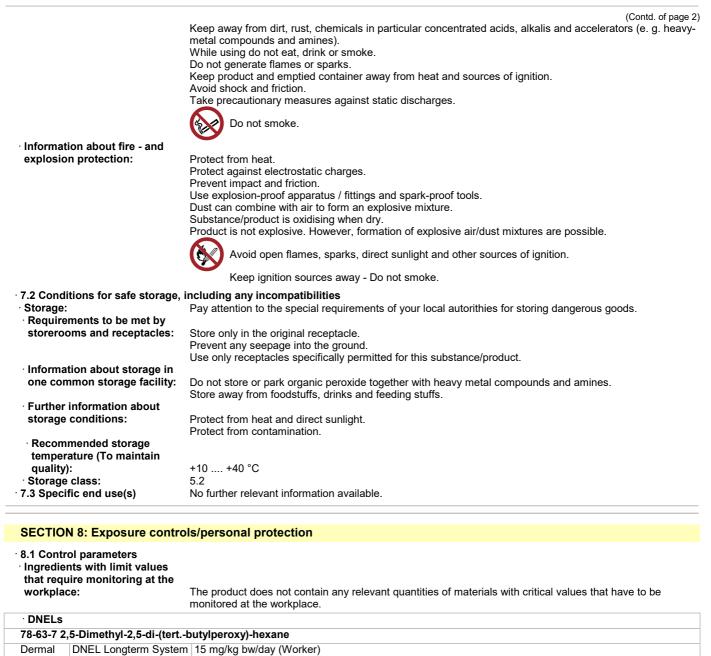
Version: 9 (replaces version 8)



Revision: 16.02.2023

Printing date 03.04.2024

Trade name: PERGAPROP HX-20 PP



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: 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. 	Contd on page (1)

Printing date 03.04.2024

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

Version: 9 (replaces version 8)



Revision: 16.02.2023

Trade name: PERGAPROP HX-20 PP

	Keen away from foodstuffer	(Contd. of page 3)
	Keep away from foodstuffs, to Immediately remove all soile	
	Wash hands before breaks a	
	Store protective clothing sep	
	Avoid close or long term con	tact with the skin.
	Avoid contact with the eyes a	
	Do not eat, drink, smoke or s	
	Use skin protection cream fo	
· Respiratory protection:	Not necessary if room is well	ghly after work and before breaks.
Respiratory protection.		-ventilated.
	Use suitable respira	tory device when it exceed exposure limit and when insufficiently ventilated.
	Filter P2	
· Hand protection	Only use chemical-protective	gloves with CE-labelling of category III.
		e material on consideration of the penetration times, rates of diffusion and the
	degradation	
Metavial of alayses	Protective gloves	alarras da se vet sully deve and av the usets vial by the last on further vessels. of
 Material of gloves 	quality and varies from manu	gloves does not only depend on the material, but also on further marks of
	Butyl rubber, BR	
	Fluorocarbon rubber (Viton)	
	Nitrile rubber, NBR	
	Neoprene	
Penetration time of glove		
material		has to be found out by the manufacturer of the protective gloves and has to be
	observed.	
• Eye/face protection	Tightly appled gogg	
	Tightly sealed goggl	es
· Body protection:	$\mathbf{\tilde{\mathbf{A}}}$	
	Protective work cloth	ning
2003 protocioni	Protective work cloth	ning
	Protective work cloth	ning
		ning
SECTION 9: Physical and ch	nemical properties	ning
	nemical properties	ning
SECTION 9: Physical and ch	nemical properties	ning white - yellowish
SECTION 9: Physical and ch 9.1 Information on basic physic General Information	nemical properties	
SECTION 9: Physical and ch 9.1 Information on basic physic General Information Colour:	nemical properties	white - yellowish
SECTION 9: Physical and ch 9.1 Information on basic physic General Information Colour: Odour: Odour: Molting point/freezing point:	nemical properties cal and chemical properties	white - yellowish Characteristic
SECTION 9: Physical and ch 9.1 Information on basic physic General Information Colour: Odour: Odour: Melting point/freezing point: Boiling point or initial boiling	nemical properties cal and chemical properties	white - yellowish Characteristic Not determined. Not applicable. Not applicable.
SECTION 9: Physical and ch 9.1 Information on basic physic General Information Colour: Odour: Odour: Melting point/freezing point: Boiling point or initial boiling Flammability	nemical properties cal and chemical properties point and boiling range	white - yellowish Characteristic Not determined. Not applicable.
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Version: 9 (replaces version 8)

Revision: 16.02.2023

The Peroxide Company

Trade name: PERGAPROP HX-20 PP

	(Contd. of page 4
· 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 is not explosive. However, formation of explosive air/dust
	mixtures are possible.
· 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	Heating may cause a fire.
Corrosive to metals	Void
· Desensitised explosives	Void
Other safety characteristics	
· Active oxygen	2,1 - 2,3 %

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 classing 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 c	classification:	
78-63-7 2,5-Dimethyl-2,5-di-(ter	tbutylperoxy)-hexane	
Oral LD50 >2.000 mg/kg (rat	ttus)	
Dermal LD50 >2.000 mg/kg (ral	bbit)	
Skin corrosion/irritation Causes skin irritation.		
		(Contd. on page 6)
		IE

Printing date 03.04.2024

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



Revision: 16.02.2023

(Contd. of page 5)

Trade name: PERGAPROP HX-20 PP

Version: 9 (replaces version 8)

 Serious eye damage/irritation
 Respiratory or skin sensitisation
 Based on available data, the classification criteria are not met.

· Germ cell mutagenicityBased on available data, the classification criteria are not met.· CarcinogenicityBased on available data, the classification criteria are not met.· Reproductive toxicityBased on available data, the classification criteria are not met.· STOT-single exposureBased on available data, the classification criteria are not met.· STOT-repeated exposureBased on available data, the classification criteria are not met.· Aspiration hazardBased on available data, the classification criteria are not met.· 11.2 Information on other hazardsBased on available data, the classification criteria are not met.

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity
 Aquatic toxicity:

ity: No further relevant information available

12.2 Persistence and degradability
 Degree of elimination:

· Classification:

olassification.			
78-63-7 2,5-Dimethy	yl-2,5-di-(tertbu	tylperoxy)-hexa	ne

Degradation (Not readily biodegradable) (OECD 301 D)

12.3 Bioaccumulative potential

	•			
· Partitio	n coefficient: nOctanol/water: [Log Kow]			
78-63-7	2,5-Dimethyl-2,5-di-(tertbutylperoxy)-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-(tert.-butylperoxy)-hexane

BCF	521-839
DOI	521-055

• 12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

· PBT:

· vPvB:

 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects • Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation



After diluting with a suitable inert solid material to 10 %, the product 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.

SECTION 14: Transport information

•	14.1	UN	num	ber	or	ID	numbe	۶r
	ADF	R, IN	IDG,	IAT	Ά			

UN3108



Version: 9 (replaces version 8)

Revision: 16.02.2023

- IE

The Peroxide Company

Trade name: PERGAPROP HX-20 PP

(Contd. of page
UN3108 ORGANIC PEROXIDE TYPE E, SOLID (2,5-DIMETHYL-2,5-DI- (tertBUTYLPEROXY)-HEXANE)
ORGANIC PEROXIDÉ TYPE E, SOLID (2,5-DIMETHYL-2,5-DI-(tert BUTYLPEROXY)-HEXANE)
5.2 (P1) Organic peroxides. 5.2
5.2 Organic peroxides. 5.2
Void
Νο
Warning: Organic peroxides.
- D
SW1 Protected from sources of heat.
SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
uments Not applicable.
500 g Code: E0 Not permitted as Excepted Quantity
2
D
like ADR
500 g
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	None of the ingredients is 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
· DIRECTIVE 2011/65/EU on the re	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
None of the ingredients is listed.	
	(Contd. on page 8)

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Version: 9 (replaces version 8)

Revision: 16.02.2023

The Peroxide Company

Trade name: PERGAPROP HX-20 PP

(Contd. of page 7) · 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. · 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 · 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 ADR: Accord relatif au transport international des marchandises dangereuses pa 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 dose 50 percent D50: Lethal dose 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. E: Organic peroxides – Type E/F Skin Irrit. 2: Skin corrosion/irritation – Category 2 ** Data compared to the previous version altered. IE —