

Printing date 05.01.2024 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

PERGAPROP HX-7.5 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 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

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 Void · Hazard pictograms Void · Signal word Void

· Hazard-determining

components of labelling: 2,5-Dimethyl-2,5-di-(tert.-butylperoxy)-hexane

Hazard statements Void

2.3 Other hazards

· Results of PBT and vPvB assessment

· 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	2,5-Dimethyl-2,5-di-(tertbutylperoxy)-hexane	Org. Perox. C, H242; Skin Irrit. 2, H315	5-10%

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 measures

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

No further relevant information available delayed

4.3 Indication of any immediate medical attention and special

No further relevant information available treatment needed

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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

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

5.3 Advice for firefighters

· Protective equipment:

Do not inhale explosion gases or combustion gases.

· Additional information

Self-protection first!

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

 6.3 Methods and material for containment and cleaning up:

6.2 Environmental precautions:

Pick up mechanically.

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.

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

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, including any incompatibilities

Storage:

Requirements to be met by

storerooms and receptacles:

Store in a cool location.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

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):

+10 +40 °C

Storage class:

· 7.3 Specific end use(s) 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) Inhalative DNEL Longterm System 11 mg/m3 (Worker)

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· PNECs

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

PNEC Marinewater sed | 7,22 mg/kg sed dw (-) 0,00065 mg/l (AF 10) PNEC Freshwater 72,2 mg/kg sed dw (-) PNEC Freshwater sed 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.

Immediately remove all soiled and contaminated clothing

Store protective clothing separately.

· Respiratory protection:

Filter P2

· Hand protection Not required.

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.

· 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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· General Information

· Physical state Solid

· Colour: white - yellowish · Odour: Characteristic · Odour threshold:

· Melting point/freezing point: Not applicable.

Boiling point or initial boiling point and boiling range Not applicable. May cause fire. · Flammability

· Lower and upper explosion limit

Not determined. · Lower: Not determined. · Upper: · Flash point: Not applicable. Decomposition temperature: +80 °C (SADT) Not applicable.

· pH · Viscosity:

· Kinematic viscosity Not applicable.

Not applicable. · Dynamic:

·Solubility

water: Undetermined.

· Partition coefficient n-octanol/water (log value) not determined Not determined. Not applicable.

· Vapour pressure:

Density and/or relative density

· Density: Relative density Vapour density Particle characteristics Not determined. Not determined. Not applicable.

Not determined

See section 3.

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Void

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· 9.2 Other information

· Appearance:

· Form: Granulate

 \cdot 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

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 liquids Void
Pyrophoric solids Void
Self-heating substances and mixtures

· Substances and mixtures, which emit flammable gases in contact with water

contact with water Void
Oxidising liquids Void
Oxidising solids Void
Organic peroxides Void
Corrosive to metals Void
Desensitised explosives Void

Desensitised explosives
 Other safety characteristics

Active oxygen 0,7 - 0,9 %

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability · Thermal decomposition /

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 classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

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

Oral LD50 >2.000 mg/kg (rattus)
Dermal LD50 >2.000 mg/kg (cuniculosus)

• Skin corrosion/irritation
• Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Respiratory or skin

sensitisation
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT-single exposure
STOT-repeated exposure

Based on available data, the classification criteria are not met.
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· Aspiration hazard Based on available data, the classification criteria are not met.

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· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

Aquatic toxicity: No further relevant information available.

- 12.2 Persistence and degradability
- · Degree of elimination:

•	Clas	ssific	ation:
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78-63-7 2,5-Dimethyl-2,5-di-(tert.-butylperoxy)-hexane

Degradation (Not readily biodegradable) (OECD 301 D)

12.3 Bioaccumulative potential

Partition 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

• 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

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.

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.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

• Recommendation Smaller quantities can be disposed of with household waste.

• Waste disposal key: Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-

number.

14.7 Maritime transport in bulk according to IMO instruments Not applicable.

Uncleaned packaging:

• **Recommendation:** Disposal must be made according to official regulations.

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.

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· Transport/Additional information:	No dangerous good according the regulation of transport.
· ADR	
· RID / GGVSFR·	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

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:

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.

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