

Printing date 03.04.2024 Version: 8 (replaces version 7) Revision: 20.12.2022

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

· 1.1 Product identifier

• Trade name: PERGAPROP BIB-40 PP-G

· 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

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

Ora, Perox, G

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

2.2 Label elements

· Labelling according to

Regulation (EC) No 1272/2008 The

7/2008 The product is classified and labelled according to the CLP regulation.

· Hazard pictograms Void · Signal word Void

· Hazard-determining

**components of labelling:** [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide

Hazard statements H413 May cause long lasting harmful effects to aquatic life.

• **Precautionary statements** P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 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

CAS: 25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide
EINECS: 246-678-3 Org. Perox. D, H242; Aquatic Chronic 4, H413

Reg-No.: 01-2119495677-17

• 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:

Take care of personal protection for the first aider.

• After inhalation: Take affected persons into fresh air and keep quiet.
• After skin contact: 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 delayed

No further relevant information available.

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30-40%



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· 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: 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.

6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.

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

· 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

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 Open and handle receptacle with care.

Prevent formation of dust.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Before break and at the end of work hands should be thoroughly washed.

While using do not eat, drink or smoke.

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

Pay attention to the special requirements of your local autorithies for storing dangerous goods.

storerooms and receptacles:

Prevent any seepage into the ground.

Use only receptacles specifically permitted for this substance/product.

Information about storage in

Store away from foodstuffs, drinks and feeding stuffs.

one common storage facility: **Further information about** 

Protect from heat and direct sunlight. Protect from contamination.

Recommended storage

storage conditions:

temperature (To maintain quality):

max.: +30 °C

Storage class: 5.2 · 7.3 Specific end use(s)

No further relevant information available.

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#### 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

25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide

Dermal DNEL Longterm System 28 mg/kg bw/day (Worker)
Inhalative DNEL Longterm System 19,7 mg/m3 (Worker)

·PNECs

25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide

PNEC Marinewater sed | 0,892 mg/kg sed dw (AF 1.000)
PNEC Freshwater sed | 8,9 mg/kg sed dw (AF 100)
PNEC STP | 100 mg/l (AF 10)

• 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.

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.

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.

• Respiratory protection: Not necessary if room is well-ventilated.



Use suitable respiratory 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.



Selection of the glove material on consideration of the penetration times, rates of diffusion and the

degradation

Protective gloves

• Material of gloves

The selection of the suitable glove

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

· 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

· Body protection:



Protective work clothing

#### **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

· General Information

Physical state

· Colour:

· Odour threshold:

Solid

Light yellow

Characteristic

Not determined.

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· Melting point/freezing point:	Not applicable.
· Boiling point or initial boiling point and boiling range	Not applicable.
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Flammability May cause fire.

Lower and upper explosion limit

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

Decomposition temperature:
 pH
 +80 °C (SADT)
 Mixture is non-soluble (in water).

Viscosity:
Kinematic viscosity
Dynamic:
Not applicable.
Not applicable.

Dynamic: Not applicate Solubility

water: Undetermined.
 Partition coefficient n-octanol/water (log value) not determined.
 Not determined.
 Vapour pressure: Not applicable.

Density and/or relative density

Density:

Not determined.

Relative density
Bulk density at 20 °C:
Vapour density
Particle characteristics

Not determined.
490 kg/m³
Not applicable.

See section 3.

· 9.2 Other information

· Appearance:
· Form: Granulate

 $\cdot \ \, \text{Important information on protection of health and environment,}$ 

and on safety.

Ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

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

#### **SECTION 10: Stability and reactivity**

· Corrosive to metals

· 10.2 Chemical stability

· 10.3 Possibility of hazardous

· Desensitised explosives

• 10.1 Reactivity No further relevant information available.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

reactions No dangerous reactions known.

10.4 Conditions to avoid
 10.5 Incompatible materials:
 Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g.

Void

Void

heavy-metal compounds and amines).

10.6 Hazardous decomposition
 products:
 No hazardous decomposition products if used and stored according to specifications.

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• 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 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:

25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide

Oral LD50 >5.000 mg/kg (rattus)
Dermal LD50 >2.000 mg/kg (rattus)

Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin
sensitisation
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity

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

STOT-single exposure
STOT-repeated exposure
Aspiration hazard
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

#### **SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquatic toxicity:

25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide

LC50 / 96h | 750 mg/l (fish)

- 12.2 Persistence and degradability
- Degree of elimination:
- · Classification:

#### 25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide

Degradation (Not readily biodegradable) (OECD 301 D)

12.3 Bioaccumulative potential

· Partition coefficient: nOctanol/water: [Log Kow]

25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide

7,3 (20°C)

· Bioconcentration factor (BCF)

25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide

BCF 1.820

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



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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

number.

Uncleaned packaging:

This material and its container must be disposed of as hazardous waste. · Recommendation:

#### **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 IMO instruments Not applicable.		
· Transport/Additional information:	Not subject to the requirement for Class 5.2. (exempt)	
· 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

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

· Contact: Tel: +49 2871 9902-0 E-mail: mail@pergan.com

· Version number of previous

version:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International · Abbreviations and acronyms:

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)

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



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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. D: Organic peroxides – Type C/D
Org. Perox. G: Organic peroxides – Type G
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

· \* Data compared to the previous version altered.