

Version: 8 (replaces version 7)

Revision: 20.12.2022

The Peroxide Company

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: 1.4 Emergency telephone 	Qualified person: E-mail: msds@pergan.com
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. 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 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. P273 Avoid release to the environment. Precautionary statements 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. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. · vPvB: · Determination of endocrinedisrupting properties The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

0.2 MIXture5		
· Dangerous components:		
	[1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide Org. Perox. D, H242; Aquatic Chronic 4, H413	30-40%
• 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:

· After inhalation:

· After skin contact:

After eye contact:

• After swallowing:

delayed

 4.2 Most important symptoms and effects, both acute and



Take affected persons into fresh air and keep quiet. Immediately remove contaminated clothing. Rinse opened eye for several minutes under running water. If symptoms persist consult doctor.

Take care of personal protection for the first aider.

No further relevant information available.

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· 4.3 Indication of any immediate	(Contd. of page 1
medical attention and special treatment needed	No further relevant information available.
SECTION 5: Firefighting mea	sures
 5.2 Special hazards arising from 	
the substance or mixture 5.3 Advice for firefighters Protective equipment: Additional information	Under certain fire conditions, traces of other toxic gases cannot be excluded. Do not inhale explosion gases or combustion gases. Self-protection first!
SECTION 6: Accidental release	se measures
 6.1 Personal precautions, protective equipment and 	
emergency procedures • 6.2 Environmental precautions:	Wear protective equipment. Keep unprotected persons away. 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 sto	brage
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, • Storage: • Requirements to be met by	including any incompatibilities 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 one common storage facility: Further information about storage conditions: 	Store away from foodstuffs, drinks and feeding stuffs. Protect from heat and direct sunlight.
 Recommended storage temperature (To maintain quality): 	Protect from contamination. max.: +30 °C
 Storage class: 7.3 Specific end use(s) 	5.2 No further relevant information available.

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 8.1 Control parameters Ingredients with limit values that require monitoring at the

workplace:

·DNELs

Dermal

· PNECs

PNFC STP

controls

· Additional information:

General protective and hygienic measures:

· Respiratory protection:

8.2 Exposure controls Appropriate engineering Version: 8 (replaces version 7)

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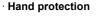
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SECTION 8: Exposure controls/personal protection

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide DNEL Longterm System 28 mg/kg bw/day (Worker) Inhalative DNEL Longterm System 19,7 mg/m3 (Worker) 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) 100 mg/l (AF 10) The lists valid during the making were used as basis. No further data; see section 7. Individual protection measures, such as personal protective equipment 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. Not necessary if room is well-ventilated. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated. Filter P2 Only use chemical-protective gloves with CE-labelling of category III.



· Material of gloves

degradation

Protective aloves 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 The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be

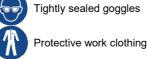
· Penetration time of glove material

· Eye/face protection

· Body protection:

observed.

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



SECTION 9: Physical and chemical pr	operties
· · · , · · · · · · · ·	
• 9.1 Information on basic physical and che	nical properties
· General Information	
· Physical state	Solid
· Colour:	Light yellow
· Odour:	Characteristic
 Odour threshold: 	Not determined.

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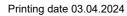
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· Melting point/freezing point:	Not applicable.
Boiling point or initial boiling point and boiling range	Not applicable.
Flammability	May cause fire.
· Lower and upper explosion limit	,
Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
· Decomposition temperature:	+80 °C (SADT)
· pH	Mixture is non-soluble (in water).
· Viscosity:	
	Natannliachla
Kinematic viscosity	Not applicable.
· Dynamic:	Not applicable.
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	Not determined.
Bulk density at 20 °C:	490 kg/m³
Vapour density	Not applicable.
Particle characteristics	
See section 3.	
9.2 Other information	
Appearance:	
Form:	Granulate
Important information on protection of health and environm	
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
	Void
• Oxidising solids	Void
· Organic peroxides	Void
Corrosive to metals	Void
· Desensitised explosives	Void

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. (Contd. on page 5)



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· Additional information:	(Contd. of page 4) Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.
SECTION 11: Toxicologic	al information

· Acute toxicity	Based on available data, the classification criteria are not met.	
· LD/LC50 values relevant for cl		
25155-25-3 [1,3 (or 1,4)-phenyle	nebis(1-methylethylidene)]bis[tert-butyl] peroxide	
Oral LD50 >5.000 mg/kg (ratt	tus)	
Dermal LD50 >2.000 mg/kg (ratt	tus)	
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.	
 Aspiration hazard 	Based on available data, the classification criteria are not met.	
· 11.2 Information on other hazards		
· Endocrine disrupting propertie	95	
None of the ingredients is listed.		

SECTION 12: Ecological information				
12.1 Toxicity				
· Aquatic toxicity:				
25155-25-3 [1,3 (or 1,4)-phenyl	enebis(1-methylethylidene)]bis[tert-butyl] peroxide			
LC50 / 96h 750 mg/l (fish)				
12.2 Persistence and degradal	bility			
 Degree of elimination: 				
· Classification:				
25155-25-3 [1,3 (or 1,4)-phenyl	enebis(1-methylethylidene)]bis[tert-butyl] peroxide			
Degradation (Not readily biode	gradable) (OECD 301 D)			
12.3 Bioaccumulative potentia	l l			
· Partition coefficient: nOctan	ol/water: [Log Kow]			
25155-25-3 [1,3 (or 1,4)-phenyle	enebis(1-methylethylidene)]bis[tert-butyl] peroxide 7,3 (20°C)			
Bioconcentration factor (BCF)				
25155-25-3 [1,3 (or 1,4)-phenyl	enebis(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 				
· 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 informa				
· 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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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

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· Waste disposal key:	(Conto. of page 5) 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.

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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 IMC	D 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 I
 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.

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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.
	H413 May cause long lasting harmful effects to aquatic life.
· Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
 Version number of previous 	
version:	7
· 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



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	ropean List of Notified Chemical Substances
	cal Abstracts Service (division of the American Chemical Society)
	red No-Effect Level (REACH)
PNEC: Pred	icted No-Effect Concentration (REACH)
LC50: Letha	I concentration, 50 percent
LD50: Letha	I dose, 50 percent
PBT: Persist	tent, Bioaccumulative and Toxic
	Persistent and very Bioaccumulative
	D: Organic peroxides – Type C/D
	G: Organic peroxides – Type G
Aquatic Chro	onic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

 * Data compared to the previous version altered.

