

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:	PEROXAN BIB-40 PE-G		
• 1.2 Relevant identified uses of th	e 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:	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. 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 Hazard pictograms Signal word 	The product is classified and labelled according to the CLP regulation. Void Void	
 Hazard-determining components of labelling: Hazard statements Precautionary statements 	[1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide H413 May cause long lasting harmful effects to aquatic life. 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: • vPvB: • 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: 25155-25-3	[1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide	30-40%
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.

Take affected persons into fresh air and keep quiet.

Rinse opened eye for several minutes under running water.

· After inhalation: · After skin contact:

- After eye contact:
- · After swallowing:

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

Immediately remove contaminated clothing.

If symptoms persist consult doctor.

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 4.3 Indication of any immediate medical attention and special 	
treatment needed	No further relevant information available.
SECTION 5: Firefighting mea	sures
· 5.1 Extinguishing media	
 Suitable extinguishing agents: 5.2 Special hazards arising from 	
the substance or mixture 5.3 Advice for firefighters	Under certain fire conditions, traces of other toxic gases cannot be excluded.
 Protective equipment: Additional information 	Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first!
SECTION 6: Accidental relea	
 6.1 Personal precautions, protective equipment and emergency procedures 	In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials.
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
· 6.4 Reference to other sections	regulations. 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: Usedling and st	
SECTION 7: Handling and sto	orage
 7.1 Precautions for safe handling 	Open and handle receptacle with care.
handing	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. Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-
	metal compounds and amines).
	While using do not eat, drink or smoke. Avoid shock and friction.
· Information about fire - and	
explosion protection:	Protect from heat.
	Prevent impact and friction. Dust can combine with air to form an explosive mixture.
	Substance/product is oxidising when dry.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
7.2 Conditions for safe storage,	
 Storage: Requirements to be met by 	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
storerooms and receptacles:	Store only in the original receptacle.
	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	Store away from foodstuffs, drinks and feeding stuffs.
storage conditions:	Protect from heat and direct sunlight.
· Recommended storage	Protect from contamination.
temperature (To maintain	
quality):	max.: +30 °C

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 Storage class: 7.3 Specific end use(s) 	(Contd. of page 5.2 No further relevant information available.
SECTION 8: Exposu	ire controls/personal protection
8.1 Control parameters Ingredients with limit that require monitorin workplace:	values
DNELs	ı
25155-25-3 [1,3 (or 1,4))-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide
	erm System 28 mg/kg bw/day (Worker)
-	erm System 19,7 mg/m3 (Worker)
PNECs	
)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide
	0,892 mg/kg sed dw (AF 1.000)
	8,9 mg/kg sed dw (AF 1000)
PNEC STP	100 mg/l (AF 10)
· Additional informatio	
8.2 Exposure controls	
Appropriate engineeri controls Individual protection General protective ar hygienic measures:	No further data; see section 7. measures, such as personal protective equipment nd 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.
· Respiratory protectic	Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
· Respiratory protectio	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.
	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. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Protective 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. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR
Hand protection Material of gloves	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. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Protective 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. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene
Hand protection	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. Selection of the glove material on consideration of the penetration times, rates of diffusion and degradation Protective 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. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene
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Light yellow
Characteristic
Not determined.
Not applicable.
Not applicable.
May cause fire.
Not determined.
Not determined.
Not applicable.
+80 °C (SADT)
Not applicable.
Not applicable.
Not applicable
Not applicable.
Not applicable.
The distance is a
Undetermined.
not determined
Not applicable.
0,368 g/cm ³
Not determined.
390 kg/m³
Not applicable.
No further relevant information available.
Solid
Granulate
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SECTION 10: Stability and reactivity

· 10.1 Reactivity

No further relevant information available.



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· 10.2 Chemical stability	(Contd. of page 4)
• Thermal decomposition / 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.
 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 Info · Acute t		ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.
· LD/LC	50 values relevant for cl	assification:
25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide		
Oral	LD50 >5.000 mg/kg (ratt	us)
Dermal	LD50 >2.000 mg/kg (ratt	us)
· Skin co	prrosion/irritation	Based on available data, the classification criteria are not met.
· Serious	s eye damage/irritation	Based on available data, the classification criteria are not met.
•	atory or skin	
sensitis	sation	Based on available data, the classification criteria are not met.
· Germ c	ell mutagenicity	Based on available data, the classification criteria are not met.
· Carcino	ogenicity	Based on available data, the classification criteria are not met.
· Reprod	luctive toxicity	Based on available data, the classification criteria are not met.
· STOT-s	single exposure	Based on available data, the classification criteria are not met.
· STOT-r	epeated exposure	Based on available data, the classification criteria are not met.
 Aspirat 	tion hazard	Based on available data, the classification criteria are not met.
• 11.2 Info	ormation on other hazar	ds
· Endocr	rine disrupting propertie	S
None of the ingredients is listed.		

SECTION 12: Ecological information

-			
12.1 Toxicity			
· Aquatic toxicity:			
25155-25-3 [1,3 (or 1,4)-phe	nylenebis(1-methylethylidene)]l	bis[tert-butyl] peroxide	
LC50 / 96h 750 mg/l (fish)			
12.2 Persistence and degra	dability		
Degree of elimination:			
· Classification:			
25155-25-3 [1,3 (or 1,4)-phe	nylenebis(1-methylethylidene)]I	is[tert-butyl] peroxide	
Degradation (Not readily bio	degradable) (OECD 301 D)		
12.3 Bioaccumulative poter	tial		
· Partition coefficient: nOct	anol/water: [Log Kow]		
25155-25-3 [1,3 (or 1,4)-phe	ylenebis(1-methylethylidene)]bis	[tert-butyl] peroxide	7,3 (20°C)
Bioconcentration factor (B	CF)		
25155-25-3 [1,3 (or 1,4)-phe	nylenebis(1-methylethylidene)]I	bis[tert-butyl] peroxide	
BCF 1.820			
12.4 Mobility in soil	No further relevant informa	tion available.	
12.5 Results of PBT and vP	/B assessment		
• PBT: The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.		ding to REACH, annex XIII.	
· vPvB:	The substances in the mix	ture do not meet the PBT/vPvB criteria accord	ding to REACH, annex XIII. (Contd. on page

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 12.6 Endocrine disrupting 	
properties	The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects	No further relevant information available.
· Additional ecological inform	ation:
· 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
	Rec	omme	ndation	

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:

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)

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

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 Ш None of the ingredients is listed.

· 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. H413 May cause long lasting harmful effects to aquatic life.
 Department issuing SDS: 	Environment protection / Security of labour





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Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
Version number of previous	
version:	7
Abbreviations and acronyms:	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) 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. 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.	