

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

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 Trade name: 1.2 Relevant identified uses of th Application of the substance / the mixture 1.3 Details of the supplier of the 	PEROXAN BIB-40 PE-G ne substance or mixture and uses advised against No further relevant information available. Reaction initiator For industrial use 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 number: 	Environment protection / Security of labour Qualified person: E-mail: msds@pergan.com - Tel: +49 2871 9902-0

SECTION 2: Hazards identification	
• 2.1 Classification of the substar • Classification according to Reg Org. Perox. G Aquatic Chronic 4 H413 May cau	
 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 GB 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 asses • PBT: • vPvB: 	

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:

- · After inhalation:
- · After skin contact:
- · After eye contact:
- After swallowing:
- 4.2 Most important symptoms and effects, both acute and delayed

Take care of personal protection for the first aider.



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.

No further relevant information available.

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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	ISURES
5.1 Extinguishing media	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 5.3 Advice for firefighters	Under certain fire conditions, traces of other toxic gases cannot be excluded.
· Protective equipment:	Do not inhale explosion gases or combustion gases.
· Additional information	Cool endangered receptacles with water spray. Self-protection first!
SECTION 6: Accidental relea	ise measures
6.1 Personal precautions,	
protective equipment and	In case of further temperature, should be ceeded with waterenrow from a cefe distance
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.
containment and cleaning up.	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: Handling and st	orage
· 7.1 Precautions for safe	
handling	Open and handle receptacle with care. Prevent formation of dust.
	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,	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:	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. Protect from contamination.
· Recommended storage	
temperature (To maintain	

max.: +30 °C

quality):

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7.3 Specific end use(s)	No further relevant information available.
SECTION 8: Exposure cont	rols/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	· · · · · · · · · · · · · · · · · · ·
	enebis(1-methylethylidene)]bis[tert-butyl] peroxide
	28 mg/kg bw/day (Worker)
Inhalative DNEL Longterm System	em 19.7 mg/m3 (Worker)
	en e la se de caracter de caracter e Minis Recetor la construit e
25155-25-3 [1,3 (or 1,4)-pnenyl PNEC Marinewater sed 0.892 m	enebis(1-methylethylidene)]bis[tert-butyl] peroxide
PNEC Freshwater sed 8.9 mg/	
	/I (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.
	s, such as personal protective equipment
 General protective and hygienic measures: 	The usual precautionary measures are to be adhered to when handling chemicals.
nygienie medsures.	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 degradation
	Protective gloves
 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. Butyl rubber, BR
	Fluorocarbon rubber (Viton)
	Nitrile rubber, NBR
· Penetration time of glove	Neoprene
material	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to
	observed.
· Eye/face protection	Tightly sealed goggles
· Body protection:	Protective work clothing
SECTION 9: Physical and c	hemical properties

· General Information · Colour:

Light yellow

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· Odour:	Characteristic	
· Odour threshold:	Not determined.	
 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	Not applicable.	
· Viscosity:		
· Kinematic viscosity	Not applicable.	
· Dynamic:	Not applicable.	
Solubility		
water:	Undetermined.	
Partition coefficient n-octanol/water (log value)	not determined	
· Vapour pressure:	Not applicable.	
· Density and/or relative density	· L L	
Density at 20 °C:	0.368 g/cm ³	
· Relative density	Not determined.	
· Bulk density at 20 °C:	390 kg/m ³	
· Vapour density	Not applicable.	
9.2 Other information	No further relevant information available.	
· Appearance:		
Appearance: · Form:	Solid Granulate	
 Appearance: Form: Important information on protection of health and environm and on safety. Ignition temperature: Explosive properties: 	Granulate	
 Appearance: Form: Important information on protection of health and environm and on safety. Ignition temperature: Explosive properties: Change in condition 	Granulate nent, Product is not selfigniting. Not determined.	
 Appearance: Form: Important information on protection of health and environm and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate 	Granulate nent, Product is not selfigniting.	
 Appearance: Form: Important information on protection of health and environm and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes 	Granulate ent, Product is not selfigniting. Not determined. Not applicable.	
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 Appearance: Form: Important information on protection of health and environm and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising solids Oxidising solids Oxidising solids Organic peroxides Corrosive to metals 	Granulate Product is not selfigniting. Not determined. Not applicable. Void Void Void Void Void Void Void Void	
 Appearance: Form: Important information on protection of health and environm and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising solids Oxidising solids Oxidising solids Organic peroxides Corrosive to metals Desensitised explosives 	Granulate Product is not selfigniting. Not determined. Not applicable. Void Void Void Void Void Void Void Void	
 Appearance: Form: Important information on protection of health and environm and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising solids Oxidising solids Oxidising solids Organic peroxides Corrosive to metals 	Granulate Product is not selfigniting. Not determined. Not applicable. Void Void Void Void Void Void Void Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity

10.2 Chemical stability

 Thermal decomposition / conditions to be avoided: No further relevant information available.

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.



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 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

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	Oral LD50 >5,000 mg/kg (rattus)		
Dermal LD50 >2,000 mg/kg (rattus)			
· Skin c	orrosion/irritation	Based on available data, the classification criteria are not met.	
· Seriou	s eye damage/irritation	Based on available data, the classification criteria are not met.	
· Respir	atory or skin		
sensiti	isation	Based on available data, the classification criteria are not met.	
· Germ o	cell mutagenicity	Based on available data, the classification criteria are not met.	
· Carcin	ogenicity	Based on available data, the classification criteria are not met.	
· Reproc	ductive 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-I	repeated exposure	Based on available data, the classification criteria are not met.	
· Aspira	tion hazard	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)-phenyl	enebis(1-methylethylidene)]bis[tert-butyl] peroxide	
LC50 / 96h 750 mg/l (fish)		
12.2 Persistence and degrada Degree of elimination:	bility	
· 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	al	
· Partition coefficient: nOctan	ol/water: [Log Kow]	
25155-25-3 [1,3 (or 1,4)-phenyl	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 	assessment	
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, ar	inex XIII.
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, ar	inex XIII.
 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 information:		
· General notes:	Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water	antd on page (c)
		ontd. on page 6)

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(Contd. of page 5) 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

X

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 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)

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Poisons Act
· Regulated explosives precursors
None of the ingredients is listed.
· Regulated poisons
None of the ingredients is listed.
· Reportable explosives precursors
None of the ingredients is listed.
· Reportable poisons
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 II
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.
· National regulations:

Other regulations, limitations and prohibitive regulations
 Please note:
 Take care of the respective local regulations.

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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.
 Department issuing SDS: Contact: 	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com
 Abbreviations and acronyms: * Data compared to the previous version altered. 	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 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 (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic VPWB: very Persistent and very Bioaccumulative Org. Perox. D: Organic peroxides – Type G Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
•	