Printing date 02.04.2024

Version: 8 (replaces version 7)

Revision: 15.02.2023

The Peroxide Company

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

### · 1.1 Product identifier

PEROXAN BIB-80 P

· Trade name:	PEROXAN BIB-80 P
1.2 Relevant identified uses of the	ne substance or mixture and uses advised against No further relevant information available
<ul> <li>Application of the substance / the mixture</li> </ul>	Reaction initiator For industrial use
• 1.3 Details of the supplier of the • Manufacturer/Supplier:	safety data sheet PERGAN GmbH Hilfsstoffe für industrielle Prozesse Schlavenhorst 71 D-46395 Bocholt Tel: +49 2871 9902-0 Fax: +49 2871 9902-50
<ul> <li>Further information obtainable from:</li> <li>1.4 Emergency telephone number:</li> </ul>	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 substance or mixture $\cdot$ Classification according to Regulation (EC) No 1272/2008

Org. Perox. D H242 Heating may cause a fire.

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	
	GHS02
· Signal word	Danger
<ul> <li>Hazard-determining components of labelling:</li> <li>Hazard statements</li> </ul>	[1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide H242 Heating may cause a fire. H413 May cause long lasting harmful effects to aquatic life.
· Precautionary statements	<ul> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P220 Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).</li> <li>P234 Keep only in original packaging.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P410 Protect from sunlight.</li> </ul>
	<ul> <li>P411+P235 Store at temperatures not exceeding +30°C. Keep cool.</li> <li>P420 Store separately.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> </ul>
<ul> <li>2.3 Other hazards</li> <li>Results of PBT and vPvB asse</li> <li>PBT:</li> <li>vPvB:</li> <li>Determination of endocrine-</li> </ul>	ssment 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.
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 EINECS: 246-678-3 Reg-No.: 01-2119495677-17	[1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide Org. Perox. D, H242; Aquatic Chronic 4, H413	70-80%
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IE

Printing date 02.04.2024

Version: 8 (replaces version 7)



Revision: 15.02.2023

# Trade name: PEROXAN BIB-80 P

· Additional information:	For the wording of the listed hazard phrases refer to section 16.	(Contd. of page
SECTION 4: First aid measure	es	
4.1 Description of first aid measured	ures	
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	No further relation to famo the statistics	
delayed 4.3 Indication of any immediate	No further relevant information available.	
medical attention and special		
treatment needed	No further relevant information available.	
<ul> <li>5.1 Extinguishing media</li> <li>Suitable extinguishing agents:</li> <li>5.2 Special hazards arising from the substance or mixture</li> <li>5.3 Advice for firefighters</li> <li>Protective equipment:</li> <li>Additional information</li> </ul>	Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid. Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray.	
SECTION 6: Accidental releases 6.1 Personal precautions, protective equipment and emergency procedures	Keep away from ignition sources. In case of further temperature should be cooled with waterspray from a safe distance.	
	Wear breathing apparatus with filter A during decomposition of materials. Wear protective equipment. Keep unprotected persons away.	
6.2 Environmental precautions:	Inform respective authorities in case of seepage into water course or sewage system.	
0.2 Environmental precautions.		



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

 6.3 Methods and material for containment and cleaning up:
 Ensure adequate ventilation. Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before disposal. 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 parsonal protection equipment. See Section 8 for information. In case of large spillage the environmental authority should be informed.

### SECTION 7: Handling and storage

· 7.1 Precautions for safe	
handling	Keep away from heat and direct sunlight.
•	Open and handle receptacle with care.
	Prevent formation of dust.
	Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
	Do not refill residue into storage receptacles.
	Restrict the quantity stored at the work place.
	Before break and at the end of work hands should be thoroughly washed.
	Only use tools made of suitable materials (e. g. polyethylene or stainless steel).
	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy- metal compounds and amines).

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



Revision: 15.02.2023

### Version: 8 (replaces version 7)

## Trade name: PEROXAN BIB-80 P

	(Contd. of page
	While using do not eat, drink or smoke.
	Do not generate flames or sparks.
	Keep product and emptied container away from heat and sources of ignition. Avoid shock and friction.
	Take precautionary measures against static discharges.
	Do not smoke.
· Information about fire - an	
explosion protection:	Protect from heat.
	Protect against electrostatic charges. Prevent impact and friction.
	Use explosion-proof apparatus / fittings and spark-proof tools.
	Dust can combine with air to form an explosive mixture.
	Substance/product is oxidising when dry.
	Product is not explosive. However, formation of explosive air/dust mixtures are possible.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
	Keep ignition sources away - Do not smoke.
7.2 Conditions for safe sto	orage, including any incompatibilities
Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
• Requirements to be met l	
storerooms and receptac	cles: Store only in the original receptacle. Prevent any seepage into the ground.
	Use only receptacles specifically permitted for this substance/product.
· Information about storage	
one common storage fac	ility: Do not store or park organic peroxide together with heavy metal compounds and amines. Store away from foodstuffs, drinks and feeding stuffs.
· Further information abou	
storage conditions:	Protect from heat and direct sunlight. Protect from contamination.
· Recommended storage	
temperature (To maintai	
quality):	+30 °C
<ul> <li>Storage class:</li> <li>7.3 Specific end use(s)</li> </ul>	5.2 No further relevant information available.
7.5 Specific end use(s)	
SECTION 8: Exposure c	controls/personal protection
8.1 Control parameters	291
Ingredients with limit valu	
Ingredients with limit valu that require monitoring at workplace:	t the
Ingredients with limit valu that require monitoring at workplace: DNELs	t <b>the</b> The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Ingredients with limit valu that require monitoring at workplace: DNELs 25155-25-3 [1,3 (or 1,4)-phe	t the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. enylenebis(1-methylethylidene)]bis[tert-butyl] peroxide
Ingredients with limit valu that require monitoring at workplace: DNELs 25155-25-3 [1,3 (or 1,4)-phe Dermal DNEL Longterm S	t <b>the</b> The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. enylenebis(1-methylethylidene)]bis[tert-butyl] peroxide System 28 mg/kg bw/day (Worker)
Ingredients with limit valu that require monitoring at workplace: DNELs 25155-25-3 [1,3 (or 1,4)-phe Dermal DNEL Longterm S	t the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. enylenebis(1-methylethylidene)]bis[tert-butyl] peroxide
Ingredients with limit valu that require monitoring at workplace: DNELs 25155-25-3 [1,3 (or 1,4)-phe Dermal DNEL Longterm S	t <b>the</b> The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. enylenebis(1-methylethylidene)]bis[tert-butyl] peroxide System 28 mg/kg bw/day (Worker)
Ingredients with limit valu that require monitoring at workplace: DNELs 25155-25-3 [1,3 (or 1,4)-phe Dermal DNEL Longterm S Inhalative DNEL Longterm S PNECs 25155-25-3 [1,3 (or 1,4)-phe	t the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. enylenebis(1-methylethylidene)]bis[tert-butyl] peroxide System 28 mg/kg bw/day (Worker) System 19,7 mg/m3 (Worker) enylenebis(1-methylethylidene)]bis[tert-butyl] peroxide
Ingredients with limit value that require monitoring at workplace: DNELs 25155-25-3 [1,3 (or 1,4)-phe Dermal DNEL Longterm S Inhalative DNEL Longterm S PNECs 25155-25-3 [1,3 (or 1,4)-phe PNEC Marinewater sed 0,88	t the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. envlenebis(1-methylethylidene)]bis[tert-butyl] peroxide System 28 mg/kg bw/day (Worker) System 28 mg/kg bw/day (Worker) 19,7 mg/m3 (Worker) envlenebis(1-methylethylidene)]bis[tert-butyl] peroxide 92 mg/kg sed dw (AF 1.000)
Ingredients with limit value that require monitoring at workplace:         DNELs         25155-25-3 [1,3 (or 1,4)-phe         Dermal       DNEL Longterm S         Inhalative       DNEL Longterm S         PNECs       25155-25-3 [1,3 (or 1,4)-phe         PNEC Marinewater sed       0,88         PNEC Freshwater sed       8,9	t the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. envlenebis(1-methylethylidene)]bis[tert-butyl] peroxide System 28 mg/kg bw/day (Worker) System 28 mg/kg bw/day (Worker) 19,7 mg/m3 (Worker) envlenebis(1-methylethylidene)]bis[tert-butyl] peroxide 92 mg/kg sed dw (AF 1.000) mg/kg sed dw (AF 100)
Ingredients with limit value that require monitoring at workplace:         DNELs         25155-25-3 [1,3 (or 1,4)-phe         Dermal       DNEL Longterm S         Inhalative       DNEL Longterm S         PNECs       25155-25-3 [1,3 (or 1,4)-phe         PNEC Marinewater sed       0,88         PNEC Freshwater sed       8,9	t the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. envlenebis(1-methylethylidene)]bis[tert-butyl] peroxide System 28 mg/kg bw/day (Worker) System 28 mg/kg bw/day (Worker) 19,7 mg/m3 (Worker) envlenebis(1-methylethylidene)]bis[tert-butyl] peroxide 92 mg/kg sed dw (AF 1.000) mg/kg sed dw (AF 100) 0 mg/l (AF 10)
Ingredients with limit value that require monitoring at workplace:         DNELs         25155-25-3 [1,3 (or 1,4)-phe         Dermal       DNEL Longterm S         Inhalative       DNEL Longterm S         PNECs       25155-25-3 [1,3 (or 1,4)-phe         PNEC Marinewater sed       0,88         PNEC Freshwater sed       8,9	t the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. envlenebis(1-methylethylidene)]bis[tert-butyl] peroxide System 28 mg/kg bw/day (Worker) System 28 mg/kg bw/day (Worker) 19,7 mg/m3 (Worker) envlenebis(1-methylethylidene)]bis[tert-butyl] peroxide 92 mg/kg sed dw (AF 1.000) mg/kg sed dw (AF 100)
Ingredients with limit value that require monitoring at workplace:DNELs25155-25-3 [1,3 (or 1,4)-pheDermalDNEL Longterm SInhalativeDNEL Longterm SPNECs25155-25-3 [1,3 (or 1,4)-phePNEC Marinewater sed0,88PNEC Freshwater sed8,9PNEC STP100Additional information:8.2 Exposure controls	t the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. envlenebis(1-methylethylidene)]bis[tert-butyl] peroxide System 28 mg/kg bw/day (Worker) System 28 mg/kg bw/day (Worker) 19,7 mg/m3 (Worker) envlenebis(1-methylethylidene)]bis[tert-butyl] peroxide 92 mg/kg sed dw (AF 1.000) mg/kg sed dw (AF 100) 0 mg/l (AF 10)
Ingredients with limit value that require monitoring at workplace:DNELs25155-25-3 [1,3 (or 1,4)-phe DNEL Longterm SInhalativeDNEL Longterm SPNECs25155-25-3 [1,3 (or 1,4)-phe DNEL SPNEC Marinewater sed PNEC Freshwater sed PNEC STP0,88 8,9 100Additional information:100	t the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.  enylenebis(1-methylethylidene)]bis[tert-butyl] peroxide  System 28 mg/kg bw/day (Worker)  System 19,7 mg/m3 (Worker)  enylenebis(1-methylethylidene)]bis[tert-butyl] peroxide  92 mg/kg sed dw (AF 1.000) mg/kg sed dw (AF 100) 0 mg/l (AF 10)

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Version: 8 (replaces version 7)



Revision: 15.02.2023

# Trade name: PEROXAN BIB-80 P

	Use skin protection cream fo Be sure to clean skin thorou	or skin protection. ghly after work and before breaks.
Respiratory protection:	Not necessary if room is wel	
	Use suitable respira	tory device when it exceed exposure limit and when insufficiently ventilated.
	Filter P2	
Hand protection		e gloves with CE-labelling of category III. ve material on consideration of the penetration times, rates of diffusion and t
<sup>.</sup> Material of gloves	Protective gloves The selection of the suitable quality and varies from manu Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene	gloves does not only depend on the material, but also on further marks of ufacturer to manufacturer.
<ul> <li>Penetration time of glove material</li> </ul>	The exact break trough time observed.	has to be found out by the manufacturer of the protective gloves and has to
Eye/face protection	Tightly sealed gogg	les
Body protection:	Protective work clot	bing
.1 Information on basic physi		
.1 Information on basic physi General Information Colour:		white - yellowish Characteristic
.1 Information on basic physi General Information Colour: Odour: Odour threshold:		Characteristic Not determined.
.1 Information on basic physi General Information Colour: Odour: Odour threshold: Melting point/freezing point:	cal and chemical properties	Characteristic Not determined. Not applicable.
.1 Information on basic physi General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling Flammability	cal and chemical properties	Characteristic Not determined.
.1 Information on basic physi General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling Flammability Lower and upper explosion I	cal and chemical properties	Characteristic Not determined. Not applicable. Not applicable. May cause fire.
A Information on basic physi General Information Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling Flammability Lower and upper explosion I	cal and chemical properties	Characteristic Not determined. Not applicable. Not applicable.
A Information on basic physi General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling Flammability Lower and upper explosion I Lower: Upper: Flash point:	cal and chemical properties g point and boiling range imit	Characteristic Not determined. Not applicable. Not applicable. May cause fire. Not determined. Not determined. Not applicable.
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A Information on basic physi General Information Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling Flammability Lower and upper explosion li Lower: Upper: Flash point: Decomposition temperature: pH Viscosity: Kinematic viscosity Dynamic: Solubility water: Partition coefficient n-octano Vapour pressure:	cal and chemical properties g point and boiling range imit	Characteristic Not determined. Not applicable. May cause fire. Not determined. Not determined. Not applicable. +80 °C (SADT) Not applicable. Not applicable. Not applicable. Not applicable.
A Information on basic physi General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling Flammability Lower and upper explosion I Lower: Upper: Flash point: Decomposition temperature: pH Viscosity: Kinematic viscosity Dynamic: Solubility water: Partition coefficient n-octano Vapour pressure: Density and/or relative densit	cal and chemical properties g point and boiling range imit	Characteristic Not determined. Not applicable. May cause fire. Not determined. Not determined. Not applicable. +80 °C (SADT) Not applicable. Not applicable. Not applicable. Undetermined. not determined. not determined. Not applicable.
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0.1 Information on basic physi General Information Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling Flammability Lower and upper explosion l Lower: Upper: Flash point: Decomposition temperature: pH Viscosity: Kinematic viscosity Dynamic: Solubility water: Partition coefficient n-octano Vapour pressure: Density and/or relative densit	cal and chemical properties g point and boiling range imit	Characteristic Not determined. Not applicable. May cause fire. Not determined. Not determined. Not applicable. +80 °C (SADT) Not applicable. Not applicable. Not applicable. Undetermined. not determined. not determined. Not applicable.
<ul> <li>A.1 Information on basic physi General Information Colour:</li> <li>Odour threshold:</li> <li>Melting point/freezing point:</li> <li>Boiling point or initial boiling Flammability</li> <li>Lower and upper explosion li</li> <li>Lower:</li> <li>Upper:</li> <li>Flash point:</li> <li>Decomposition temperature: pH</li> <li>Viscosity:</li> <li>Kinematic viscosity</li> <li>Dynamic:</li> <li>Solubility</li> <li>water:</li> <li>Partition coefficient n-octano Vapour pressure:</li> <li>Density and/or relative densiti</li> <li>Density at 20 °C:</li> <li>Relative density</li> <li>Bulk density at 20 °C:</li> <li>Vapour density</li> </ul>	cal and chemical properties g point and boiling range imit	Characteristic Not determined. Not applicable. May cause fire. Not determined. Not determined. Not applicable. +80 °C (SADT) Not applicable. Not applicable. Not applicable. Undetermined. not determined Not applicable.
A Information on basic physi General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling Flammability Lower and upper explosion li Lower: Upper: Flash point: Decomposition temperature: pH Viscosity: Kinematic viscosity Dynamic: Solubility water: Partition coefficient n-octano Vapour pressure: Density and/or relative densit Density at 20 °C: Relative density Bulk density at 20 °C:	cal and chemical properties g point and boiling range imit	Characteristic Not determined. Not applicable. May cause fire. Not determined. Not determined. Not applicable. +80 °C (SADT) Not applicable. Not applicable. Not applicable. Undetermined. Not applicable. 1,12 g/cm <sup>3</sup> Not determined. 400 kg/m <sup>3</sup>
<ul> <li>A Information on basic physi General Information Colour:</li> <li>Odour threshold:</li> <li>Melting point/freezing point: Boiling point or initial boiling Flammability Lower and upper explosion lie Lower:</li> <li>Upper:</li> <li>Flash point:</li> <li>Decomposition temperature: pH</li> <li>Viscosity:</li> <li>Kinematic viscosity</li> <li>Dynamic:</li> <li>Solubility</li> <li>water:</li> <li>Partition coefficient n-octano Vapour pressure:</li> <li>Density at 20 °C:</li> <li>Relative density</li> <li>Bulk density at 20 °C:</li> <li>Vapour density</li> <li>Particle characteristics</li> </ul>	cal and chemical properties g point and boiling range imit	Characteristic Not determined. Not applicable. May cause fire. Not determined. Not determined. Not applicable. +80 °C (SADT) Not applicable. Not applicable. Undetermined. Not applicable. Undetermined. Not applicable. 1,12 g/cm <sup>3</sup> Not determined. 400 kg/m <sup>3</sup> Not applicable.
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Melting point/freezing point: Boiling point or initial boiling Flammability Lower and upper explosion li Lower: Upper: Flash point: Decomposition temperature: pH Viscosity: Kinematic viscosity Dynamic: Solubility water: Partition coefficient n-octand Vapour pressure: Density and/or relative densit Density at 20 °C: Relative density Bulk density at 20 °C:	cal and chemical properties g point and boiling range imit	Characteristic Not determined. Not applicable. May cause fire. Not determined. Not determined. Not applicable. +80 °C (SADT) Not applicable. Not applicable. Undetermined. Not applicable. Undetermined. Not applicable. 1,12 g/cm <sup>3</sup> Not determined. 400 kg/m <sup>3</sup> Not applicable.

Printing date 02.04.2024

Version: 8 (replaces version 7)

Revision: 15.02.2023

The Peroxide Company

## Trade name: PEROXAN BIB-80 P

	(Contd. of pag
Important information on protection of health and environme	nt.
and on safety.	,
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/dust mixtures are possible.
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
<ul> <li>Self-reactive substances and mixtures</li> </ul>	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	Heating may cause a fire.
Corrosive to metals	Void
· Desensitised explosives	Void
Other safety characteristics	
· Active oxygen	7,5 - 7,6 %

### SECTION 10: Stability and reactivity

<ul> <li>10.1 Reactivity</li> <li>10.2 Chemical stability</li> <li>Thermal decomposition /</li> </ul>	No further relevant information available.
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. To avoid thermal decomposition do not overheat.
• 10.3 Possibility of hazardous	
reactions	Self-accelerating decomposition at SADT.
<ul> <li>10.4 Conditions to avoid</li> </ul>	No further relevant information available.
<ul> <li>10.5 Incompatible materials:</li> </ul>	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).
<ul> <li>10.6 Hazardous decomposition</li> </ul>	
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**

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       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       Based on available data, the classification criteria are not met.         Germ cell mutagenicity       Based on available data, the classification criteria are not met.	· LD/LC	50 valu	es relevant for cl	LD/LC50 values relevant for classification:			
Dermal       LD50       >2.000 mg/kg (rattus)         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       Based on available data, the classification criteria are not met.         Germ cell mutagenicity       Based on available data, the classification criteria are not met.	25155-2	25-3 [1,3	6 (or 1,4)-phenyle	nebis(1-methylethylidene)]bis[tert-butyl] peroxide			
Skin corrosion/irritationBased on available data, the classification criteria are not met.Serious eye damage/irritationBased on available data, the classification criteria are not met.Respiratory or skinBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.	Oral	LD50 >	>5.000 mg/kg (ratt	us)			
Serious eye damage/irritationBased on available data, the classification criteria are not met.Respiratory or skinBased on available data, the classification criteria are not met.SensitisationBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.	Dermal	LD50 >					
Respiratory or skin sensitisationBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.	Skin c	orrosior	n/irritation	Based on available data, the classification criteria are not met.			
sensitisationBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.			•	Based on available data, the classification criteria are not met.			
Germ cell mutagenicity Based on available data, the classification criteria are not met.			r skin				
	sensiti	isation		Based on available data, the classification criteria are not met.			
Carcinogenicity Based on available data, the classification criteria are not met	Germ of	cell mut	agenicity	Based on available data, the classification criteria are not met.			
	Carcin	ogenici	ty	Based on available data, the classification criteria are not met.			



Version: 8 (replaces version 7)

Revision: 15.02.2023

The Peroxide Company

## Trade name: PEROXAN BIB-80 P

		(Contd. of page	
· 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 properties			
None of the ingredients is listed			
5			
SECTION 12: Ecological in	formation		
12.1 Toxicity			
· Aquatic toxicity:	lanah (a/a madhuladhuladhula) an aNh (afana huu) - 19 manu - 11 m		
25155-25-3 [1,3 (or 1,4)-pheny LC50 / 96h 750 mg/l (fish)	lenebis(1-methylethylidene)]bis[tert-butyl] peroxide		
12.2 Persistence and degrada	hility		
· Degree of elimination:	Dinty		
· Classification:			
	lenebis(1-methylethylidene)]bis[tert-butyl] peroxide		
Degradation (Not readily biode			
12.3 Bioaccumulative potentia			
Partition coefficient: nOctan		7.0 (00%	
,	enebis(1-methylethylidene)]bis[tert-butyl] peroxide	7,3 (20°C	
Bioconcentration factor (BCF	·		
	lenebis(1-methylethylidene)]bis[tert-butyl] peroxide		
BCF 1.820	All fourth on a large of the four of the second labels		
<ul> <li>12.4 Mobility in soil</li> <li>12.5 Results of PBT and vPvB</li> </ul>	No further relevant information available.		
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to F	REACH annex XIII	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to F		
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	ation:		
· General notes:	Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardo		
	Do not allow undiluted product or large quantities of it to reach ground water, wa	ater course or sewage	

SECTION 13: Disposal considerations		
<ul> <li>13.1 Waste treatment methods</li> <li>Recommendation</li> </ul>	After diluting with a suitable inert solid material to 10 %, the product must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage	
· Waste disposal key:	Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)- number.	
<ul> <li>Uncleaned packaging:</li> <li>Recommendation:</li> </ul>	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	UN3106
· 14.2 UN proper shipping name	
ADR	UN3106 ORGANIC PEROXIDE TYPE D, SOLID (DI-(tert-
	BUTYLPEROXYISOPROPYL)-BENZENE(S))
· IMDG, IATA	ORGANIC PEROXIDE TYPE D, SOLID (DI-(tert-
	BUTYLPEROXYISOPROPYL)-BENZENE(S))
	(Contd. on page 7

(Contd. on page 7)

Printing date 02.04.2024

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

Version: 8 (replaces version 7)





Revision: 15.02.2023

## Trade name: PEROXAN BIB-80 P

	(Contd. of pag
14.3 Transport hazard class(es)	
ADR	
· Class	5.2 (P1) Organic peroxides.
· Label	5.2
· IMDG, IATA	
· Class	5.2 Organic peroxides.
Label	5.2
14.4 Packing group	
· ADR, IMDG, IATA	Void
14.5 Environmental hazards:	NI-
Marine pollutant:	No
14.6 Special precautions for user · Hazard identification number (Kemler code):	Warning: Organic peroxides.
· Stowage Category	D
Stowage Code	SW1 Protected from sources of heat.
· Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
14.7 Maritime transport in bulk according to IMO instr	·
Transport/Additional information:	
· ADR	
Limited quantities (LQ)	500 g
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	2
Tunnel restriction code	D
· RID / GGVSEB:	like ADR
·IMDG	
Limited quantities (LQ)	500 g
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
	Not permitted as Excepted Quantity

### **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.
Seveso category	P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
Qualifying quantity (tonnes) for	r
the application of lower-tier	
requirements	50 t
Qualifying quantity (tonnes) for	r
the application of upper-tier	
requirements	200 t
DIRECTIVE 2011/65/EU on the r	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
II	
None of the ingredients is listed.	
· REGULATION (EU) 2019/1148	
· Regulation (EC) No 273/2004 or	n drug precursors
None of the ingredients is listed.	
	(Contd. on page 8)

Printing date 02.04.2024

Version: 8 (replaces version 7)



Revision: 15.02.2023

## Trade name: PEROXAN BIB-80 P

# (Contd. of page 7) · 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.

<sup>·</sup> 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
<ul> <li>Version number of previous version:</li> <li>Abbreviations and acronyms:</li> </ul>	<ul> <li>7</li> <li>RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)</li> <li>ICAO: International Civil Aviation Organisation</li> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (REACH)</li> <li>PNEC: Predicted No-Effect Concentration (REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LDS0: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> <li>Org. Perox. D: Organic peroxides – Type C/D</li> <li>Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4</li> </ul>
<ul> <li>* Data compared to the previous version altered.</li> </ul>	