

Version: 11 (replaces version 10)

The Peroxide Company

Revision: 20.12.2022

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

· 1.1 Product identifier

PEROXAN BIB-40 PK

· Trade name:		
1.2 Relevant identified uses o	f the substance or mixture and uses advised against	
	No further relevant information available.	
 Application of the substance 	1	
the mixture	Reaction initiator	
	For industrial use	
· 1.3 Details of the supplier of t	he 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 obtainab	le	
from:	Environment protection / Security of labour	
	Qualified person: E-mail: msds@pergan.com	
· 1.4 Emergency telephone	Z	
number:	- Tel: +49 2871 9902-0	
SECTION 2: Hazards ident	ification	

SECTION 2: Hazards identifi	cation		
• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 Flam. Sol. 1 H228 Flammable solid. 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	The product is classified and labelled according to the CLP regulation.		
· Signal word	Danger		
 Hazard-determining components of labelling: Hazard statements Precautionary statements 	 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide H228 Flammable solid. H413 May cause long lasting harmful effects to aquatic life. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof [electrical/ventilating/lighting] equipment. P273 Avoid release to the environment. P280 Wear eye protection / face protection. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. 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: Determination of endocrine- 	U		
disrupting properties	The product does not contain substances with endocrine disrupting properties.		

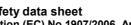
SECTION 3: Composition/information on ingredients

· 3.2 Mixtures		
· 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.	'IE

Printing date 02.04.2024

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

Version: 11 (replaces version 10)



. ſ The Peroxide Company

Revision: 20.12.2022

Trade name: PEROXAN BIB-40 PK

(Contd. of page 1)

	(Contd. of page 1
SECTION 4: First aid measur	res
4.1 Description of first aid meas	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: After swallowing:	Rinse opened eye for several minutes under running water. If symptoms persist consult doctor.
4.2 Most important symptoms	
and effects, both acute and	
delayed 4.3 Indication of any immediate	No further relevant information available.
medical attention and special	
treatment needed	No further relevant information available.
SECTION 5: Firefighting mea	isures
5.1 Extinguishing media	
Suitable extinguishing agents:	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	se measures
6.1 Personal precautions,	
protective equipment and	han a second for the second
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.
	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 sto	orage
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.
	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.

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Avoid open flames, sparks, direct sunlight and other sources of ignition.

Printing date 02.04.2024

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



Revision: 20.12.2022

Version: 11 (replaces version 10)

Trade name: PEROXAN BIB-40 PK

	(Contd. of page 2
	storage, including any incompatibilities Pay attention to the special requirements of your local autorithies for storing dangerous goods.
 Storage: Requirements to be m 	
storerooms and recep	otacles: Store only in the original receptacle.
	Prevent any seepage into the ground. Use only receptacles specifically permitted for this substance/product.
· Information about sto	
one common storage	
Further information al	bout
storage conditions:	Protect from heat and direct sunlight. Protect from contamination.
· Recommended stora	
temperature (To mair	
quality): · Storage class:	max.: +30 °C 5.2
· 7.3 Specific end use(s)	
SECTION 8: Exposur	re controls/personal protection
-	
 8.1 Control parameters Ingredients with limit v 	
that require monitoring	
workplace:	The product does not contain any relevant quantities of materials with critical values that have to be
·DNELs	monitored at the workplace.
	-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide
	rm System 28 mg/kg bw/day (Worker)
•	rm 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 100)
PNEC STP	100 mg/l (AF 10)
· Additional information	n: The lists valid during the making were used as basis.
· 8.2 Exposure controls	
· Appropriate engineerin	
controls	No further data; see section 7. neasures, such as personal protective equipment
· General protective an	
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 	
	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
Motorial of starts	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 Neoprene
	(Contd. on page 4

Version: 11 (replaces version 10)



Revision: 20.12.2022

(Contd. of page 3)

Trade name: PEROXAN BIB-40 PK

 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
- · Body protection:

Printing date 02.04.2024



Tightly sealed goggles

Protective work clothing

SECTION 9: Physical and chemical properties

 9.1 Information on basic physical and chemical properties General Information 	
· Colour:	white - yellowish
· 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)
∙рН	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	
Density at 20 °C:	1,5 g/cm³
Relative density	Not determined.
Bulk density at 20 °C:	360 kg/m ³
· Vapour density	Not applicable.
· Particle characteristics	
See section 3.	
9.2 Other information	No further relevant information available.
· Appearance:	
· Form:	Solid
Important information on protection of boolth and anvironm	Powder
 Important information on protection of health and environme and on safety. 	ent,
· Ignition temperature:	Product is not selfigniting.
Explosive properties:	Not determined.
· Change in condition	Not determined.
· 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	Flammable solid.
 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
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Printing date 02.04.2024

Version: 11 (replaces version 10)

PERGAN The Peroxide Company

Revision: 20.12.2022

Trade name: PEROXAN BIB-40 PK

		(Contd. of page 4)
· Organic peroxides	Void	
· Corrosive to metals	Void	
 Desensitised explosives 	Void	
Other safety characteristics		
· Active oxygen	3,7 - 3,9 %	

SECTION 10: Stability and reactivity		
 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / 	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.	
 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 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 (ratte	us)		
Dermal LD50 >2.000 mg/kg (ratte	us)		
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 hazar	ds		
· Endocrine 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)-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)	
	(Contd. on page 6)
	IE —

Printing date 02.04.2024

Version: 11 (replaces version 10)



Revision: 20.12.2022

Trade name: PEROXAN BIB-40 PK

12.3 Bioaccumulative potentia		Contd. of page
· Partition coefficient: nOctan		
25155-25-3 [1,3 (or 1,4)-phenyl	enebis(1-methylethylidene)]bis[tert-butyl] peroxide	7,3 (20°C
Bioconcentration factor (BCF	F)	
25155-25-3 [1,3 (or 1,4)-pheny	lenebis(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, anne	x XIII.
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, anne	x 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 informa	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 system.	sewage

SECTION 13: Disposal considerations

•	13.1	Waste treatment methods	
	Rec	ommendation	



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	UN1325
· 14.2 UN proper shipping name · ADR	UN1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (DI-(tert- BUTYLPEROXYISOPROPYL)-BENZENE(S))
· IMDG, IATA	FLAMMABLE SOLID, ORGAŃIC, N.O.S. (DÍ-(tert- BUTYLPEROXYISOPROPYL)-BENZENE(S))
· 14.3 Transport hazard class(es)	
ADR	
- A∰D	
Class	4.1 (F1) Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives
·Label	4.1
· IMDG, IATA	
₩	
Class	4.1 Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives
· Label	4.1
· 14.4 Packing group · ADR, IMDG, IATA	П
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Warning: Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives
EMS Number:	F-A,S-G
· Stowage Category	В

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Printing date 02.04.2024

Version: 11 (replaces version 10)

The Peroxide Company

Revision: 20.12.2022

IE -

Trade name: PEROXAN BIB-40 PK

	(Contd. of page 6
· 14.7 Maritime transport in bulk according to IMC	D instruments Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1 kg
Excepted quantities (ÉQ)	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
 Transport category 	2
 Tunnel restriction code 	E
·IMDG	
· Limited quantities (LQ)	1 kg
Excepted quantities (ÉQ)	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g

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
- None of the ingredients is listed. - ANNEX I

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: · Contact:	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com
 Version number of previous version: 	10
• 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 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) LCS0: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic VPW: very Persistent and very Bioaccumulative Flam. Sol. 1: Flammable solids – Category 1 Org. Perox. B: Organic peroxides – Type C/D Org. Perox. B: Organic peroxides – Type C Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
* Data compared to the	

previous version altered.