

Version: 7 (replaces version 6)

The Peroxide Company

Revision: 20.12.2022

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

· 1.1 Product identifier

· Trade name:	PEROXAN BIB-40 EV-G
 1.2 Relevant identified uses of the 	ne 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 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
 Further information obtainable from: 1.4 Emergency telephone 	Environment protection / Security of labour Qualified person: E-mail: msds@pergan.com
number:	- Tel: +49 2871 9902-0

SECTION 2: Hazards identification		
 • 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 Org. Perox. G Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life. 		
 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 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.

Printing date 02.04.2024

Version: 7 (replaces version 6)



Revision: 20.12.2022

Trade name: PEROXAN BIB-40 EV-G

. 4.2 Indication of any immediate	(Contd. of page 1
 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	
	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
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 release	se measures
• 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. Wear protective equipment. Keep unprotected persons away.
· 6.2 Environmental precautions:	Inform respective authorities in case of seepage into water course or sewage system.
· 6.3 Methods and material for	Do not allow to enter sewers/ surface or ground water.
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.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
· 7.2 Conditions for safe storage,	including any incompatibilities
· Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
 Requirements to be met by 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	Change groups for a data offer advinutes and for a line statific
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):

Printing date 02.04.2024

Version: 7 (replaces version 6)



Revision: 20.12.2022

Trade name: PEROXAN BIB-40 EV-G

7.3 Specific end use(s)	No further relevant information available.
SECTION 8: Exposure co	ontrols/personal protection
8.1 Control parameters Ingredients with limit value that require monitoring at t workplace:	the The product does not contain any relevant quantities of materials with critical values that have to be
·DNELs	monitored at the workplace.
25155-25-3 [1,3 (or 1,4)-pher	nylenebis(1-methylethylidene)]bis[tert-butyl] peroxide
Dermal DNEL Longterm S Inhalative DNEL Longterm S	ystem 28 mg/kg bw/day (Worker) 19.7 mg/m3 (Worker)
PNECs	
25155-25-3 [1,3 (or 1,4)-pher	nylenebis(1-methylethylidene)]bis[tert-butyl] peroxide
PNEC Marinewater sed 0.892	
PNEC Freshwater sed 8.9 n	
	mg/l (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.
	ures, such as personal protective equipment
 General protective and 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.
· Respiratory protection:	Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Be sure to clean skin thoroughly after work and before breaks. Not necessary if room is well-ventilated.
	Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated. Filter P2
· 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 t degradation
· Material of gloves	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
 Penetration time of glove material 	Neoprene 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	I chemical properties
9.1 Information on basic ph	ysical and chemical properties

Printing date 02.04.2024

Version: 7 (replaces version 6)

PERGAN The Peroxide Company

Revision: 20.12.2022

Trade name: PEROXAN BIB-40 EV-G

	(Contd. of page 3
· 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	
Density:	Not determined.
· Relative density	Not determined.
· Bulk density at 20 °C:	350 - 400 kg/m ³
· Vapour density	Not applicable.
• 9.2 Other information	No further relevant information available.
· Appearance: · Form:	0-114
· Form:	Solid Granulate
 Important information on protection of health and environment and on safety. 	t,
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Not determined.
Change in condition	
· Evaporation rate	Not applicable.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
 Self-reactive substances and mixtures 	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in	
contact with water	Void
· Oxidising liquids	Void
• Oxidising solids	Void
· Organic peroxides	Void
Corrosive to metals	Void
· Desensitised explosives	Void
Other safety characteristics	
· Active oxygen	3.6 - 4.0 %

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.



Revision: 20.12.2022

Printing date 02.04.2024

Version: 7 (replaces version 6)

Trade name: PEROXAN BIB-40 EV-G

	(Contd. of page 4)
 10.3 Possibility of hazardous reactions 10.4 Conditions to avoid 	Self-accelerating decomposition at SADT. 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.
· Additional information:	No hazardous decomposition products if used and stored according to specifications. Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

SECTION 11: Toxicological information

 11.1 Inform Acute toxi 		ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.
· LD/LC50	values relevant for cla	assification:
25155-25-3	[1,3 (or 1,4)-phenyler	nebis(1-methylethylidene)]bis[tert-butyl] peroxide
Oral LD	50 >5,000 mg/kg (rattu	us)
Dermal LD	50 >2,000 mg/kg (ratti	us)
· Skin corro	osion/irritation	Based on available data, the classification criteria are not met.
· Serious e	ye damage/irritation	Based on available data, the classification criteria are not met.
Respirato	ry or skin	
sensitisat	ion	Based on available data, the classification criteria are not met.
· Germ cell	mutagenicity	Based on available data, the classification criteria are not met.
· Carcinoge	enicity	Based on available data, the classification criteria are not met.
· Reproduc	tive toxicity	Based on available data, the classification criteria are not met.
STOT-sing	gle exposure	Based on available data, the classification criteria are not met.
STOT-rep	eated 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.		

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	bility	
 Degree of elimination: 		
· Classification:		
25155-25-3 [1,3 (or 1,4)-pheny	enebis(1-methylethylidene)]bis[tert-butyl] peroxide	
Degradation (Not readily biode	gradable) (OECD 301 D)	
12.3 Bioaccumulative potentia	l l	
 Partition coefficient: nOctan 	ol/water: [Log Kow]	
25155-25-3 [1,3 (or 1,4)-phenyl	enebis(1-methylethylidene)]bis[tert-butyl] peroxide	7,3 (20°C)
Bioconcentration factor (BCF)		
25155-25-3 [1,3 (or 1,4)-pheny	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	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, ar	nex 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	
	C)	ontd. on page 6)

Printing date 02.04.2024

Version: 7 (replaces version 6)



Revision: 20.12.2022

Trade name: PEROXAN BIB-40 EV-G

(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

 $^\circ$ 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

 Poisons Act 	
· Regulated ex	plosives precursors
None of the ing	redients is listed.
· Regulated po	visons
None of the ing	redients is listed.
· Reportable ex	xplosives precursors
None of the ing	redients is listed.
· Reportable p	oisons
None of the ing	redients is listed.
· DIRECTIVE 20 II	011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
None of the ing	redients is listed.
· Annex I - RES	STRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ing	redients is listed.
· Annex II - RE	PORTABLE EXPLOSIVES PRECURSORS
None of the ing	redients is listed.
· Regulation (E	EC) No 273/2004 on drug precursors
None of the ing	redients is listed.
 Regulation (E precursors 	EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug
None of the ing	redients is listed.
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Printing date 02.04.2024

Version: 7 (replaces version 6)

PERGAN The Peroxide Company

Revision: 20.12.2022

Trade name: PEROXAN BIB-40 EV-G

· 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: 	Environment protection / Security of labour
· Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
 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 (UK REACH)
	PNEC: Predicted No-Effect Concentration (UK 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 Aguatic Chronic 4: Hazardous to the aguatic environment - long-term aguatic hazard – Category 4
* Data compared to the	Aqualic Chronic 4. hazardous to the aqualic environment - long-term aqualic hazard – Category 4
 * Data compared to the previous version altered. 	

(Contd. of page 6)

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