Printing date 02.04.2024

Version: 7 (replaces version 6)

Revision: 16.02.2023

The Peroxide Company

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

· 1.1 Product identifier

PEROXAN BP-Paste 50 BZ 1

Trade name:
 I.2 Relevant identified uses of the substance or mixture and uses advised against
 No further relevant information available.
 Application of the substance /
 the mixture
 Reaction initiator
 For industrial use
 1.3 Details of the supplier of the safety data sheet

ne Betane er ale euppher er ale	
 Manufacturer/Supplier: 	PERGAN GmbH
	Hilfsstoffe für industrielle Prozesse
	Schlavenhorst 71
	D-46395 Bocholt
	Tel: +49 2871 9902-0
	Fax: +49 2871 9902-50
· Further information obtainable	
from:	Environment protection / Security of labour
	Qualified person: E-mail: msds@pergan.com
 1.4 Emergency telephone 	
number:	- Tel: +49 2871 9902-0

P264

P273

P280

P410

disrupting properties

SECTION 2: Hazards identification

Org. Perox. E Eye Irrit. 2 Skin Sens. 1 Aquatic Acute 1	cording to Reg H242 Heating H319 Causes H317 May cau H400 Very tox	yulation (EC) No 12 may cause a fire. serious eye irritation ise an allergic skin i ic to aquatic life.	n.
2.2 Label element Labelling accord Regulation (EC) I Hazard pictogra	ing to No 1272/2008	The product is cla Constant of the product is cla CHS02 GHS07 G	essified and labelled according to the CLP regulation.
· Signal word		Warning	
 Hazard-determin components of I Hazard statemer 	abelling:		y cause a fire.
· Precautionary st	atements	P210 P220 P234	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines). Keep only in original packaging.

 P411+P235
 Store at temperatures not exceeding +30°C. Keep cool.

 P420
 Store separately.

 P501
 Dispose of contents/container in accordance with local/regional/national/international regulations.

 • 2.3 Other hazards
 •

 • Results of PBT and vPvB assessment
 •

 • PBT:
 The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

 • vPvB:
 The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Protect from sunlight.

protection.

The product does not contain substances with endocrine disrupting properties.

Wash thoroughly after handling.

Avoid release to the environment.

present and easy to do. Continue rinsing.

Wear protective gloves/protective clothing/eye protection/face protection/hearing

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

(Contd. on page 2)

IE

Printing date 02.04.2024

Version: 7 (replaces version 6)

PERGAN The Peroxide Company

Revision: 16.02.2023

Trade name: PEROXAN BP-Paste 50 BZ 1

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

Dangerous components:		
CAS: 94-36-0	dibenzoyl peroxide	50-60%
EINECS: 202-327-6	Org. Perox. B. H241; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Eye Irrit. 2,	
Index number: 617-008-00-0	H319; Skin Sens. 1, H317	
Reg-No.: 01-2119511472-50		
· Additional information:	For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- General information: Take care of personal protection for the first aider. · After inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep quiet. · After skin contact: Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing. After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing: If symptoms persist consult doctor. 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

[·] 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 Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.
 5.3 Advice for firefighters
 Protective equipment: Do not inhale explosion gases or combustion gases.
 Additional information Cool endangered receptacles with water spray. Self-protection first!

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and 	
emergency procedures	Keep away from ignition sources.
0 91	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.
Ū I	Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before disposal.
	Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government
	regulations.
• 6.4 Reference to other sections	5
	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.
	In case of large spillage the environmental authority should be informed.

(Contd. on page 3)

Printing date 02.04.2024

Version: 7 (replaces version 6)

The Peroxide Company

Revision: 16.02.2023

Trade name: PEROXAN BP-Paste 50 BZ 1

(Contd. of page 2)

SECTION 7: Handling and storage

SECTION 7. Handling and st	orage
· 7.1 Precautions for safe	
handling	Keep away from heat and direct sunlight. Open and handle receptacle with care. Prevent formation of aerosols. 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). 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.
Information about fire and	
 Information about fire - and explosion protection: 	Protect from heat. Protect against electrostatic charges. Prevent impact and friction. Use explosion-proof apparatus / fittings and spark-proof tools.
	Fumes can combine with air to form an explosive mixture.
	Wear shoes with conductive soles.
	Formation of flammable or explosive gas/air-mixtures is possible.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
	Keep ignition sources away - Do not smoke.
· 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 one common storage facility: 	Do not store or park organic peroxide together with heavy metal compounds and amines. Store away from foodstuffs, drinks and feeding stuffs.
• Further information about	
storage conditions:	Keep container tightly sealed. Protect from heat and direct sunlight. Protect from contamination. Storage in a collecting room is required.
· Recommended storage	
temperature (To maintain	
quality): Storage class:	+5 +30 °C 5.2
· 7.3 Specific end use(s)	No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters		
· Ingredie	· Ingredients with limit values that require monitoring at the workplace:	
94-36-0 (dibenzoyl peroxide	
OEL (Irel	and) Long-term val Sens	ue: 5 mg/m³
WEL (Gr	eat Britain) Long-term val	ue: 5 mg/m³
· DNELs		
94-36-0 0	libenzoyl peroxide	
Oral	DNEL Longterm System	2 mg/kg bw/day (General population)
Dermal	DNEL Longterm System	13,3 mg/kg bw/day (Worker)

Printing date 02.04.2024

Version: 7 (replaces version 6)

Revision: 16.02.2023

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The Peroxide Company

Trade name: PEROXAN BP-Paste 50 BZ 1

· 9.1 Information on basic physical and chemical properties

Boiling point or initial boiling point and boiling range Flammability

· General Information

· Odour threshold:

· Melting point/freezing point:

Decomposition temperature:

Lower and upper explosion limit

· Colour:

· Odour:

· Lower:

· Upper:

· pH

· Flash point:

PNECs 94-36-0 dibenzoyl peroxi PNEC Marinewater sed 0 PNEC Freshwater 0	
94-36-0 dibenzoyl peroxi PNEC Marinewater sed 0 PNEC Freshwater 0	
PNEC Marinewater sed0PNEC Freshwater0	
PNEC Freshwater 0	J.UU I MQ/KQ SEQ QW
	0,0002 mg/l (AF 50)
PNEC Freshwater sed 0	0,013 mg/kg sed dw
),35 mg/l
),000002 mg/l (AF 500)
· Additional information:	
8.2 Exposure controls	5 5
Appropriate engineering	g
controls	No further data; see section 7.
	easures, 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.
	Avoid close or long term contact with the skin.
	Avoid contact with the eyes and skin.
	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 A2
· 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
	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
Departmention time of all	Neoprene
 Penetration time of glo material 	ove The exact break trough time has to be found out by the manufacturer of the protective gloves and has to
material	observed.
· Eye/face protection	
	Tightly sealed goggles
Body protection:	Protective work clothing

White

Characteristic Not determined.

Not applicable.

Not applicable. Not applicable.

Not determined.

Not determined.

Not determined.

+50 °C (SADT) Not determined.

Printing date 02.04.2024

Version: 7 (replaces version 6)

Revision: 16.02.2023

The Peroxide Company

Trade name: PEROXAN BP-Paste 50 BZ 1

 Viscosity: Not determined. Dynamic at 20 °C: T000 - 15000 mPas Solubility water: Undetermined. Partition coefficient n-octanol/water (log value) not determined. Partition coefficient n-octanol/water (log value) not determined. Vapour pressure: Not determined. Density and/or relative density Density and/or relative density Not determined. Vapour density Not determined. Appearance: Form: Pasty Important information on protection of health and environment, and on safety. Ignition temperature: Product does not present an explosion hazard. Change in condition Istore of the present an explosion hazard. Change in condition Explosives properties: Product does not present an explosion hazard. Information with regard to physical hazard classes Void Flammable gases Void Aerosols Void Flammable liquids Void Flammable liquids Void Flammable solids Void Flammable solids Void Flammable solids Void Self-reactive substances and mixtures Void Self-rea			(Contd. of page 4)
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· Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in			
· Substances and mixtures, which emit flammable gases in			
		Void	
	contact with water	Void	
Oxidising liquids Void			
· Oxidising solids Void			
Organic peroxides Heating may cause a fire.			
· Corrosive to metals Void			
Desensitised explosives Void	•	Void	
• Other safety characteristics			
• Active oxygen 3,2 - 3,4 %	· Active oxygen	3,2 - 3,4 %	

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. To avoid thermal decomposition do not overheat.	ng
· 10.3 Possibility of hazardous	To avoid thermal decomposition do not overheat.	
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 heavy-metal compounds and amines).	. g.
· 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.	
	I	Е —

(Contd. on page 6)

Printing date 02.04.2024

Version: 7 (replaces version 6)



Revision: 16.02.2023

(Contd. of page 5)

Trade name: PEROXAN BP-Paste 50 BZ 1

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: 94-36-0 dibenzoyl peroxide Oral LD50 >5.000 mg/kg (rattus) Skin corrosion/irritation Based on available data, the classification criteria are not met. · Serious eye damage/irritation Causes serious eye irritation. · Respiratory or skin sensitisation May cause an allergic skin reaction. Germ cell mutagenicity Based on available data, the classification criteria are not met. · Carcinogenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Reproductive toxicity 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. Based on available data, the classification criteria are not met. Aspiration hazard 11.2 Information on other hazards Endocrine disrupting properties None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity		
· Aquatic toxicity:		
94-36-0 dibenzoyl peroxide		
EC50 / 72h 0,0711 mg/l (pseud	okirchneriella subcapitata)	
LC50 / 96h 0,0602 mg/l (oncorl	nynchus mykiss)	
EC50 / 48h 110 mg/l (daphnia)		
· 12.2 Persistence and degrada	bility	
· Degree of elimination:	•	
· Classification:		
94-36-0 dibenzoyl peroxide		
Degradation (Readily biodegra	dable) (OECD 301 D)	
12.3 Bioaccumulative potentia	al	
· Partition coefficient: nOctan	ol/water: [Log Kow]	
94-36-0 dibenzoyl peroxide		3,2 (20 °C)
12.4 Mobility in soil	No further relevant information available.	
• 12.5 Results of PBT and vPvB		
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, anne	
· 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.	
Remark:	Very toxic for fish	
Additional ecological information		
· General notes:	Very toxic for aquatic organisms	
	Also poisonous for fish and plankton in water bodies.	
	Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water	
	Do not allow product to reach ground water, water course or sewage system.	
	Danger to drinking water if even small quantities leak into the ground.	

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

X

After diluting with a suitable desentisation agent to 10 %, the solution 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 system.

• Waste disposal key: Please cor number.

Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)number.

(Contd. on page 7)

Printing date 02.04.2024

Version: 7 (replaces version 6)

Revision: 16.02.2023

(Contd. of page 6)

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The Peroxide Company

Trade name: PEROXAN BP-Paste 50 BZ 1

Uncleaned packaging:
 Recommendation:

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

•	
14.1 UN number or ID number ADR, IMDG, IATA	UN3108
14.2 UN proper shipping name	
ADR	UN3108 ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL
IMDG	PEROXIDE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE),
	MARINE POLLUTANT
ΙΑΤΑ	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
14.3 Transport hazard class(es)	
ADR	
· Class	5.2 (P1) Organic peroxides.
Label	5.2
IMDG	
Class	5.2 Organic peroxides.
· Label	5.2
ΙΑΤΑ	
· Class · Label	5.2 Organic peroxides. 5.2
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Product contains environmentally hazardous substances: DIBENZOYL
Marine pollutant:	PEROXIDE Yes
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
4.6 Special precautions for user	Warning: Organic peroxides.
Hazard identification number (Kemler code):	<u>.</u>
Stowage Category Stowage Code	D SW1 Protected from sources of heat.
· Segregation Code	SG35 Stow "separated from" SGG1-acids
	SG36 Stow "separated from" SGG18-alkalis.
4.7 Maritime transport in bulk according to IMO instru	uments Not applicable.
Transport/Additional information:	
ADR	
· Limited quantities (LQ)	500 g
· Excepted quantities (EQ)	Code: E0
· Transport category	Not permitted as Excepted Quantity 2
· Tunnel restriction code	D
· RID / GGVSEB:	like ADR
IMDG	
· ImDG · Limited quantities (LQ)	500 g
	5

Printing date 02.04.2024

Version: 7 (replaces version 6)

The Peroxide Company

Revision: 16.02.2023

Trade name: PEROXAN BP-Paste 50 BZ 1

(Contd. of page 7		
 Excepted quantities (EQ) 	Code: E0	
	Not permitted as Excepted Quantity	
SECTION 15: Regulatory info	rmation	
· 15.1 Safety, health and environm	nental regulations/legislation specific for the substance or mixture	
Directive 2012/18/EU		
 Named dangerous substances 		
	None of the ingredients is listed.	
· Seveso category	P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES E1 Hazardous to the Aquatic Environment	
· Qualifying quantity (tonnes) for		
the application of lower-tier		
requirements	50 t	
Qualifying quantity (tonnes) for	r	
the application of upper-tier requirements	200 t	
· REGULATION (EC) No		
1907/2006 ANNEX XVII	Conditions of restriction: 3	
· DIRECTIVE 2011/65/EU on the r II	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex	
None of the ingredients is listed.		
REGULATION (EU) 2019/1148		
Annex I - RESTRICTED EXPLO	SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))	
None of the ingredients is listed.		
· Annex II - REPORTABLE EXPL	OSIVES PRECURSORS	
None of the ingredients is listed.		
Regulation (EC) No 273/2004 o	n drug precursors	
None of the ingredients is listed.		
 Regulation (EC) No 111/2005 la precursors 	ying down rules for the monitoring of trade between the Community and third countries in drug	
None of the ingredients is listed.		
SECTION 16: Other informati	ion	
This information is based on our panot establish a legally valid contract	resent knowledge. However, this shall not constitute a guarantee for any specific product features and shall ctual relationship.	
· Relevant phrases	H241 Heating may cause a fire or explosion. H317 May cause an allergic skin reaction.	

	H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
 Department issuing SDS: Contact: 	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com
 Version number of previous version: Abbreviations and acronyms: 	6 RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDC: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Org. Perox. B: Organic peroxides – Type B Org. Perox. B: Organic peroxides – Type B Org. Perox. B: Organic peroxides – Type B/ Org. Perox. B: Organic peroxides – Type B/ Org. Perox. B: Organic peroxides – Type B/ Org. Perox. B: Organic peroxides – Type B/ Service Seve damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 (Contf. on page
	(Contd. on page

Printing date 02.04.2024

Version: 7 (replaces version 6)

Revision: 16.02.2023



* Data compared to the previous version altered.

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

(Contd. of page 8)

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