Printing date 02.04.2024

Version: 7 (replaces version 6)

**PERGAN** The Peroxide Company

Revision: 16.02.2023

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

· 1.1 Product identifier

## **PEROXAN BP-Paste 50 PF 1 rot**

· Trade name:	PERUXAN BP-Paste 50 Pr
· 1.2 Relevant identified uses of the	he 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
<ul> <li>1.3 Details of the supplier of the</li> <li>Manufacturer/Supplier:</li> </ul>	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

P234 P264

P273

P280

P410

P420

P501

P411+P235

#### **SECTION 2: Hazards identification**

Eye Irrit. 2H319 CausesSkin Sens. 1H317 May cauAquatic Acute 1H400 Very tox	
• 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	Warning
<ul> <li>Hazard-determining components of labelling:</li> <li>Hazard statements</li> </ul>	dibenzoyl peroxide H242 Heating may cause a fire. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects.
<ul> <li>Precautionary statements</li> </ul>	<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> </ul>

Keep only in original packaging.

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

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

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

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

	regulations.
<ul> <li>2.3 Other hazards</li> </ul>	
• Results of PBT and vPvB asse	ssment
· 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.
<ul> <li>Determination of endocrine-</li> </ul>	-
disrupting properties	The product does not contain substances with endocrine disrupting properties.

Store separately.

Protect from sunlight.

protection.

(Contd. on page 2)

Printing date 02.04.2024

Version: 7 (replaces version 6)

**PERGAN** The Peroxide Company

Revision: 16.02.2023

## Trade name: PEROXAN BP-Paste 50 PF 1 rot

(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		
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. Cool endangered receptacles with water spray. Self-protection first!

#### **SECTION 6: Accidental release measures**

<ul> <li>6.1 Personal precautions, protective equipment and</li> </ul>	
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.
	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	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.
	MT

Printing date 02.04.2024

Version: 7 (replaces version 6)

The Peroxide Company

Revision: 16.02.2023

# Trade name: PEROXAN BP-Paste 50 PF 1 rot

(Contd. of page 2)

### SECTION 7: Handling and storage

Openion 7. Handling and St	
· 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.
	Take productionary model against state disonargos.
	bo not smoke.
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.
	runes can combine with an 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.
la fama ati an ali anti ata mangin	Use only receptacles specifically permitted for this substance/product.
Information about storage in	Do not stare or park argania perovide tegether with heavy matel compounds and environ-
one common storage facility:	Do not store or park organic peroxide together with heavy metal compounds and amines.
· Further information about	Store away from foodstuffs, drinks and feeding stuffs.
storage conditions:	Keep container tightly sealed.
storage conditions.	Protect from heat and direct sunlight.
	Protect from contamination.
	Storage in a collecting room is required.
Recommended storage	
temperature (To maintain	
quality):	+5 +30 °C
• Storage class:	5.2
<ul> <li>7.3 Specific end use(s)</li> </ul>	No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

· 8.1 Contro	ol parameters	
· Ingredier	· Ingredients with limit values that require monitoring at the workplace:	
94-36-0 di	ibenzoyl peroxide	
WEL (Gre	at Britain) Long-term valu	e: 5 mg/m³
· DNELs		
94-36-0 di	ibenzoyl peroxide	
Oral	DNEL Longterm System	2 mg/kg bw/day (General population)
Dermal	DNEL Longterm System	13,3 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	39 mg/m3 (Worker)
		(Contd. on page 4)

Printing date 02.04.2024

Version: 7 (replaces version 6)

Revision: 16.02.2023

The Peroxide Company

## Trade name: PEROXAN BP-Paste 50 PF 1 rot

·PNECs	(Contd. of page 3	
94-36-0 dibenzoyl perc	vida	
PNEC Marinewater sed		
PNEC Freshwater	0,00002 mg/l (AF 50)	
PNEC Freshwater sed	0,013 mg/kg sed dw	
PNEC STP	0,35 mg/l	
PNEC Marinewater	0,000002 mg/l (AF 500)	
· Additional informatio		
8.2 Exposure controls Appropriate engineeric controls Individual protection General protective ar hygienic measures:	No further data; see section 7. neasures, such as personal protective equipment	
· Respiratory protectio		
· 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	
· 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	
<ul> <li>Penetration time of g material</li> </ul>	Neoprene <b>Jove</b> The exact break trough time has to be found out by the manufacturer of the protective gloves and has to b observed.	
· Eye/face protection	Tightly sealed goggles	
· Body protection:	Protective work clothing	
SECTION 9: Physica	l and chemical properties	
9.1 Information on bas · General Information	ic physical and chemical properties	
· Colour:	Red	

- · Colour:
- · Odour:
- · Odour threshold:
- Melting point/freezing point:
   Boiling point or initial boiling point and boiling range
   Flammability
- Lower and upper explosion limit
- · Lower:
- · Upper:
- · Flash point:
- Decomposition temperature:
- · pH
- · Viscosity:
- · Kinematic viscosity

Not determined. Not applicable. Not applicable. Not applicable. Not determined. Not determined. Not determined. +50 °C (SADT) Not determined.

Not determined.

Characteristic

(Contd. on page 5) MT

Printing date 02.04.2024

Version: 7 (replaces version 6)

Revision: 16.02.2023

The Peroxide Company

# Trade name: PEROXAN BP-Paste 50 PF 1 rot

		(Contd. of page
· Dynamic at 20 °C:	12000 - 25000 mPas	
· Solubility		
· water:	Undetermined.	
<ul> <li>Partition coefficient n-octanol/water (log value)</li> </ul>	not determined	
Vapour pressure:	Not determined.	
Density and/or relative density		
Density at 20 °C:	ca. 1,2 g/cm³	
Relative density	Not determined.	
Vapour density	Not determined.	
9.2 Other information	No further relevant information available.	
· Appearance:		
· Form:	Pasty	
· Important information on protection of health and env	ironment,	
and on safety.		
· Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Change in condition		
• Evaporation rate	Not determined.	
· 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 gase	es 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	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.	g
· 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.	
· 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.	
	MT	·

(Contd. on page 6)

Printing date 02.04.2024

Version: 7 (replaces version 6)

**PERGAN** The Peroxide Company

Revision: 16.02.2023

(Contd. of page 5)

## Trade name: PEROXAN BP-Paste 50 PF 1 rot

### 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 cla	· LD/LC50 values relevant for classification:		
94-36-0 dibenzoyl peroxide			
Oral LD50 >5.000 mg/kg (rattus)			
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin	Based on available data, the classification criteria are not met. Causes serious eye irritation.		
sensitisation Germ cell mutagenicity	May cause an allergic skin reaction. Based on available data, the classification criteria are not met.		
• Carcinogenicity • Reproductive toxicity • STOT-single exposure	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.		
STOT-repeated exposure Aspiration hazard	Based on available data, the classification criteria are not met. 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:		
94-36-0 dibenzoyl peroxide		
EC50 / 72h 0,0711 mg/l (pseud	okirchneriella subcapitata)	
LC50 / 96h 0,0602 mg/l (oncor	hynchus mykiss)	
EC50 / 48h 110 mg/l (daphnia)		
12.2 Persistence and degrada Degree of elimination:	bility	
· 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.	
<ul> <li>12.5 Results of PBT and vPvB</li> </ul>		
· 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.	
	Do not allow product to reach ground water, water course of sewage system. Danger to drinking water if even small quantities leak into the ground.	
	Bangor 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.

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

· Waste disposal key:

(Contd. on page 7)

Printing date 02.04.2024

Version: 7 (replaces version 6)

Revision: 16.02.2023

(Contd. of page 6)

• )

The Peroxide Company

# Trade name: PEROXAN BP-Paste 50 PF 1 rot

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	UN3108
14.2 UN proper shipping name	
ADR	
·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 (17) Organie perovides. 5.2
IMDG	
· Class	5.2 Organic peroxides.
·Label	5.2
· 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 PEROXIDE
Marine pollutant:	Yes
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Organic peroxides.
Hazard identification number (Kemler code):	
· 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.
14.7 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
· Limited quantities (LQ)	500 g
i ( ~7	(Contd. on pa

Printing date 02.04.2024

Version: 7 (replaces version 6)

Revision: 16.02.2023

The Peroxide Company

# Trade name: PEROXAN BP-Paste 50 PF 1 rot

	(Contd. of page 7)	
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity	
SECTION 15: Regulatory info	rmation	
<ul> <li>15.1 Safety, health and environm</li> </ul>	nental regulations/legislation specific for the substance or mixture	
<ul> <li>Directive 2012/18/EU</li> <li>Named dangerous substances</li> <li>ANNEX I</li> <li>Seveso category</li> </ul>	None of the ingredients is listed. 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 Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No	50 t	
1907/2006 ANNEX XVII	Conditions of restriction: 3	
DIRECTIVE 2011/65/EU on the re	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 EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))		
None of the ingredients is listed.		
Annex II - REPORTABLE EXPLOSIVES PRECURSORS		
None of the ingredients is listed.		
· Regulation (EC) No 273/2004 or	n 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 46: Other informati		
SECTION 16: Other informati	on 	

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.

<ul> <li>Department issuing SDS:</li> </ul>	Environment protection / Security of labour
· Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
<ul> <li>Version number of previous</li> </ul>	
version:	6
<ul> <li>Abbreviations and acronyms:</li> </ul>	RID: Règlement 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)
	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 (REACH)
	PNEC: Predicted No-Effect Concentration (REACH)
	LC50: Lethal concentration, 50 percent
	LD50: Lethal dose, 50 percent PBT: Persistent. Bioaccumulative and Toxic
	PDT: Persistent and very Bioaccumulative
	Org. Peros. B: Organic peroxides – Type B
	Org. Perox. E: Organic peroxides – Type E/F
	Eye Irrit. 2: Serious eye 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
* Data a survey and the these	Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
<ul> <li>* Data compared to the previous version altered.</li> </ul>	