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

Trado namo

PEROXAN BP-Paste 50 PF 1

· Trade name:	
· 1.2 Relevant identified uses of the set of	he 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
• 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
SECTION 2: Hazards identifie	cation

ards identification

· 2.1 Classification of the substance or mixture

 \cdot Classification according to Regulation (EC) No 1272/2008

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

Eye Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction.

· 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms

The product is classified and labelled according to the GB CLP regulation.

	GHS02 GHS07	
· Signal word	Warning	
· Hazard-determining		
components of labelling:	dibenzoyl peroxid	e
• Hazard statements	H242 Heating ma	y cause a fire.
	H319 Causes seri	ious eye irritation.
	H317 May cause	an allergic skin reaction.
· Precautionary statements	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P220	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).
	P234	Keep only in original packaging.
	P264	Wash thoroughly after handling.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	P305+P351+P338	F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
		present and easy to do. Continue rinsing.
	P410	Protect from sunlight.
	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 asse	essment	

· 2

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

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures · Description:

Mixture of substances listed below with nonhazardous additions.

Printing date 02.04.2024

Version: 7 (replaces version 6)

Revision: 16.02.2023

(Contd. of page 1)

Trade name: PEROXAN BP-Paste 50 PF 1

		i. or page i)
 Dangerous components: 		
	dibenzoyl peroxide	50-60%
EINECS: 202-327-6 Index number: 617-008-00-0	Org. Perox. B, H241; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Eye Irrit. 2, 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:
- · After skin contact:
- · After eye contact:
- · After swallowing:
- 4.2 Most important symptoms and effects, both acute and delayed
- 4.3 Indication of any immediate medical attention and special treatment needed

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. Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. If symptoms persist consult doctor. 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.
 S.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:
- · Additional information

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. Self-protection first!

SECTION 6: Accidental release measures 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. 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. Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations. See Section 7 for information on safe handling. • 6.4 Reference to other sections 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 storage

• 7.1 Precautions for safe
handlingKeep away from heat and direct sunlight.





Revision: 16.02.2023

Printing date 02.04.2024

Version: 7 (replaces version 6)

Trade name: PEROXAN BP-Paste 50 PF 1

	(Contd. of page
	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. heav
	metal compounds and amines).
	While using do not eat, drink or smoke.
	Do not generate flames or sparks.
	0
	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 - 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 onfo starsas	
	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.
storage conultons.	Protect from heat and direct sunlight.
December de d'ataur	Protect from contamination.
Recommended storage	
temperature (To maintain	
quality):	+5 +30 °C
Storage class:	5.2
7.3 Specific end use(s)	No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:				
94-36-0 d	94-36-0 dibenzoyl peroxide			
WEL (Gre	at Britain) Lor	ng-term valu	ie: 5 mg/m³	
· DNELs				
94-36-0 d	ibenzoyl pero	xide		
Oral	DNEL Longte	erm System	2 mg/kg bw/day (General population)	
Dermal	DNEL Longte	erm System	13.3 mg/kg bw/day (Worker)	
Inhalative DNEL Longterm System 39 mg/m3 (Worker)				
· PNECs	PNECs			
94-36-0 d	ibenzoyl pero	xide		
PNEC Ma	rinewater sed	0.001 mg/k	rg sed dw	
PNEC Fre	shwater	0.00002 mg	g/l (AF 50)	
PNEC Fre	PNEC Freshwater sed 0.013 mg/kg sed dw			
(Contd. on page 4)				
				GB —

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

PNEC STP	0.35 mg/l (Contd. of page
PNEC Marinewater	0.000002 mg/l (AF 500)
· Additional informatio	
8.2 Exposure controls Appropriate engineeri controls Individual protection i	
General protective an	d
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 protectio 	 n: 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
· 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 g	Neoprene
material	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

• 9.1 Information on basic physical and chemical properties		
· General Information		
· Colour:	White	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
 Melting point/freezing point: 	Not applicable.	
Boiling point or initial boiling point and boiling range	Not applicable.	
Flammability	Not applicable.	
· Lower and upper explosion limit		
Lower:	Not determined.	
· Upper:	Not determined.	
Flash point:	Not determined.	
Decomposition temperature:	+50 °C (SADT)	
· pH	Not determined.	
· Viscosity:		
Kinematic viscosity	Not determined.	
· Dynamic at 20 °C:	12000 - 25000 mPas	
· Solubility		
· water:	Undetermined.	
 Partition coefficient n-octanol/water (log value) 	not determined	
· Vapour pressure:	Not determined.	
		(

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

	(Contd	. of page
 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 e 	environment,	
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	
 Self-reactive substances and mixtures 	Void	
· Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flammable g	lases 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.
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 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. (Contd. on page 6) GB



Revision: 16.02.2023

Printing date 02.04.2024

Version: 7 (replaces version 6)

Trade name: PEROXAN BP-Paste 50 PF 1

· Serious eye damage/irritation	Causes serious eve irritation.	(Contd. of page 5)
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.	
 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 	rds	
Endocrine disrupting propertie	95	
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	dokirchneriella subcapitata)		
LC50 / 96h 0.0602 mg/l (oncor	hynchus mykiss)		
EC50 / 48h 110 mg/l (daphnia))		
12.2 Persistence and degrada	ability		
· Degree of elimination:	•		
· Classification:			
94-36-0 dibenzoyl peroxide			
Degradation (Readily biodegra	adable) (OECD 301 D)		
12.3 Bioaccumulative potentia	al		
· Partition coefficient: nOctan	iol/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		
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to	UK REACH, annex 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 v	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



number.

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.

^a 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)-

· Waste disposal key:

· 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



Version: 7 (replaces version 6)

Revision: 16.02.2023

Trade name: PEROXAN BP-Paste 50 PF 1

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

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Poisons Act · Regulated explosives precursors None of the ingredients is listed.



Printing date 02.04.2024

Version: 7 (replaces version 6)

Revision: 16.02.2023

Trade name: PEROXAN BP-Paste 50 PF 1

	(Contd. of page 7)
· Regulated poisons	
None of the ingredients is listed.	
· Reportable explosives precurs	ors
None of the ingredients is listed.	
· Reportable poisons	
None of the ingredients is listed.	
· 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	E1 Hazardous to the Aquatic Environment
the application of lower-tier	
requirements	50 t
· Qualifying quantity (tonnes) for	
the application of upper-tier	
requirements	200 t
· DIRECTIVE 2011/65/EU on the reliance in the	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
None of the ingredients is listed.	
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 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.	
· National regulations:	
· Other regulations, limitations and prohibitive regulations	
Please note:	Take care of the respective local regulations.

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	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@narran.com
• Abbreviations and acronyms:	E-mail: mail@pergan.com 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 Maritime Code for Dangerous Goods IATA: International Maritime Code for Classification and Labelling of Chemicals ElINECS: 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 (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent DD50: 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 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 - long-term aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1



Printing date 02.04.2024

Version: 7 (replaces version 6)

Revision: 16.02.2023

• / 6

The Peroxide Company

Trade name: PEROXAN BP-Paste 50 PF 1

 * Data compared to the previous version altered. (Contd. of page 8)

- GB ---