

Printing date 02.04.2024 Version: 7 (replaces version 6) 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:

No further relevant information available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

· 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

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 identification

· 2.1 Classification of the substance or mixture

· 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

· Hazard pictograms

· Labelling according to

Regulation (EC) No 1272/2008

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



· Signal word Warning

· Hazard-determining

components of labelling:

Hazard statements

dibenzoyl peroxide

H242 Heating may cause a fire. H319 Causes serious 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

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.

Wear protective gloves/protective clothing/eye protection/face protection/hearing P280

protection

P305+P351+P338 IF 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

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

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components: CAS: 94-36-0 50-60% dibenzoyl peroxide Org. Perox. B, H241; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Eye Irrit. 2, H319; Skin Sens. 1, H317 EINECS: 202-327-6 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:

4.2 Most important symptoms and effects, both acute and

delayed 4.3 Indication of any immediate

medical attention and special

treatment needed

No further relevant information available.

If symptoms persist consult doctor.

No further relevant information available

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.2 Special hazards arising from

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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 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

· 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.

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SECTION 7: Handling and storage

· 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.



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 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.

Recommended storage temperature (To maintain

+5 +30 °C quality):

Storage class: 52

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	t require monitor	ing at the workplace:
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94-36-0 dibenzoyl peroxide

WEL (Great Britain) Long-term value: 5 mg/m³

· DNELs

94-36-0 dibenzovl 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)

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· PNECs

94-36-0 dibenzoyl peroxide

PNEC Marinewater sed 0.001 mg/kg sed dw PNEC Freshwater 0.00002 mg/l (AF 50)
PNEC Freshwater sed 0.013 mg/kg sed dw 0.25 mg/l

PNEC STP 0.35 mg/l

PNEC Marinewater 0.000002 mg/l (AF 500)

· 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.

· Individual protection measures, 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

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

Neoprene

· 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

Tightly sealed goggles

· Body protection:



Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· General Information

· Colour:

Odour:
Odour threshold:

· Melting point/freezing point:

· Boiling point or initial boiling point and boiling range

· Flammability

riammability

Lower and upper explosion limit Lower:

Upper:
Flash point:

Decomposition temperature:

· pH

Viscosity:

Kinematic viscosity

Red

Characteristic

Not determined. Not applicable.

Not applicable. Not applicable.

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

Not determined.

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· Dynamic at 20 °C:	12000 - 25000 mPas
· Solubility	
· water:	Undetermined.
· Partition coefficient n-octanol/water (log value)	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 enviro	onment,
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

Void

Void

Void

Void

Void

Void

Void

Void

3.2 - 3.4 %

SECTION 10: Stability and reactivity

Self-heating substances and mixtures

Substances and mixtures, which emit flammable gases in

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

· Pyrophoric liquids

Pyrophoric solids

contact with water

Organic peroxides

· Corrosive to metals

· Desensitised explosives

Other safety characteristics

· Oxidising liquids

Oxidising solids

Active oxygen

Thermal decomposition / conditions to be avoided:

SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating

Heating may cause a fire.

decomposition may occur with substance in the packaging as used in transport. A dangerous selfaccelerating 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.

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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

May cause an allergic skin reaction. sensitisation

 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 (pseudokirchneriella subcapitata)

LC50 / 96h | 0.0602 mg/l (oncorhynchus mykiss)

EC50 / 48h | 110 mg/l (daphnia)

- 12.2 Persistence and degradability
- · Degree of elimination:
- · Classification:

94-36-0 dibenzoyl peroxide

Degradation (Readily biodegradable) (OECD 301 D)

12.3 Bioaccumulative potential

· Partition coefficient: nOctanol/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 assessment

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

· Remark: 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



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

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· 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	UN3108 ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL
·IMDG	PEROXIDE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE), MARINE POLLUTANT
· IATA	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
14.3 Transport hazard class(es)	
ADR	
Class	5.2 (P1) Organic peroxides.
· Label	5.2
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
· Marine pollutant:	PEROXIDE Yes Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user · Hazard identification number (Kemler code):	Warning: Organic peroxides.
Stowage Category	D
· Stowage Code · Segregation Code	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	
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)	500 g

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· Excepted quantities (EQ) 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.

Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

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.

50 t

· 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

Qualifying quantity (tonnes) for

the application of upper-tier

200 t requirements

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex

None of the ingredients is listed.

· 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 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.

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: 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)

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

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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

LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 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. 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
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

·* Data compared to the previous version altered.

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