

Printing date 29.09.2022 Version: 3 Revision: 03.03.2021

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

· 1.1 Product identifier

PEROXAN BP-Pulver 50 NB · Trade name:

1.2 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

· 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

Competent person:

* Sales Manager Germany: Mr. Ansgar Pappenheim, e-mail: a.pappenheim@pergan.com * Export Sales Manager: Mr. Dr. Thomas Philipps, e-mail: dr.philipps@pergan.com * Environment protection / : Mr. Christoph Wilting, e-mail: c.wilting@pergan.com

Security of labour

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

H242 Heating may cause a fire. Ora, Perox, D Eve Irrit. 2 H319 Causes serious eve irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. H400 Very toxic to aquatic life. Aquatic Acute 1

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

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 GHS09

· Signal word Danger

· Hazard-determining

components of labelling:

dibenzoyl peroxide

Hazard statements 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. · 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.

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

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. Do not mix with peroxide-accelerators or reducing agents. P420

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

regulations.

2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

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· vPvB: Not applicable. (Contd. of page 1)

40-50%

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Dangerous components:

CAS: 94-36-0

EINECS: 202-327-6

dibenzoyl peroxide

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.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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 swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms

and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special

treatment needed

· After eye contact:

No further relevant information available

No further relevant information available

SECTION 5: Firefighting measures

5.1 Extinguishing media

· Suitable extinguishing agents:

5.2 Special hazards arising from

the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded.

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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.

Pick up mechanically, collect in a suitable receptacle and dispose in accordance with government

regulations.

· 6.4 Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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In case of large spillage the environmental authority should be informed.

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 dust.

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. heavymetal 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.

Dust can combine with air to form an explosive mixture.

Substance/product is oxidising when dry

Product is not explosive. However, formation of explosive air/dust mixtures are 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:

· 7.3 Specific end use(s) No further relevant information available.

max.: +30 °C 52

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information about

design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:

94-36-0 dibenzoyl peroxide

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

· DNELs

94-36-0 dibenzoyl peroxide

DNEL Longterm System 2 mg/kg bw/day (General population) Oral

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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 0.0002 mg/l (AF 50) PNEC Freshwater sed 0.013 mg/kg sed dw PNEC STP 0.013 mg/kg sed dw 0.015 mg/kg sed dw 0.015 mg/kg sed dw

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

· 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 P2

• **Protection of hands:** 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

quality and varies from manufacturer to manufacturer.

Butyl rubber, BR

Fluorocarbon rubber (Viton) Nitrile rubber, NBR

Not applicable.

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 protection:

ODSCIV.

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

Appearance:

· pH-value:

· Form:
Solid
Powder

· Colour:
· Odour:
Odour:
Characteristic
· Odour threshold:
Not determined.

· Change in condition

· Melting point/freezing point: Not applicable. · Initial boiling point and boiling range: Not applicable.

· Flash point: Not applicable.

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· Flammability (solid, gas):	May cause fire.	
· Decomposition temperature:	+60 °C (SADT)	
· Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	The product is shock-sensitive	
· Explosion limits:		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Vapour pressure:	Not applicable.	
· Density:	Not determined.	
· Bulk density at 20 °C:	620 kg/m³	
· Relative density	Not determined.	
· Vapour density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
· water:	Undetermined.	
· Partition coefficient: n-octanol/w	rater: not determined	
· Viscosity:		
· Dynamic:	Not applicable.	
· Kinematic:	Not applicable.	
9.2 Other information	No further relevant information available.	
· Active oxygen	3.2 - 3.4 %	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability Thermal decomposition /

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 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

10.4 Conditions to avoid

products:

No further relevant information available. · 10.5 Incompatible materials: Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g.

· 10.6 Hazardous decomposition

Hydrocarbons, carbondioxide and -monoxid.

Self-accelerating decomposition at SADT.

heavy-metal compounds and amines).

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

· 11.1 Information on toxicological effects

· 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)

Primary irritant effect:

· 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.

Additional toxicological information:

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

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· 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.

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 magna)

12.2 Persistence and

degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available. · 12.4 Mobility in soil No further relevant information available.

Ecotoxical effects: · Remark: Very toxic for fish

· Additional ecological information:

Also poisonous for fish and plankton in water bodies. General notes:

Very toxic for aquatic organisms

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.

12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB:

Not applicable. 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation



After diluting with a suitable inert solid material to 10 %, the product 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

· Waste disposal key: Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-

number

· Uncleaned packaging:

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

SECTION 14: Transport information

· 14.1 UN-Number

· ADR, IMDG, IATA UN3106

· 14.2 UN proper shipping name

UN3106 ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL · ADR PEROXIDE), ENVIRONMENTALLY HAZARDOUS

·IMDG

ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE),

MARINE POLLUTANT

ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE) · IATA

· 14.3 Transport hazard class(es)

· ADR





· Class 5.2 (P1) Organic peroxides.

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· Label 5.2

· IMDG



Class 5.2 Organic peroxides.

· Label

· IATA



· 14.4 Packing group

Class 5.2 Organic peroxides.

· Label 5.2

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards:

• Marine pollutant: 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): EMS Number: F-J,S-R

• EMS Number: F-J,S-F
• Stowage Cartegory D

Stowage Code
 Segregation Code
 Sull Protected from sources of heat.
 Sull Stow "separated from SGG1-acids SG35 Stow "separated from SGG18-alkalis.

· 14.7 Transport in bulk according to Annex II of Marpol and the

IBC Code Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 500 g · Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

Transport category 2
Tunnel restriction code

· RID / GGVSEB: like ADR

·IMDG

· Limited quantities (LQ) 500 g · 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

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

E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t Qualifying quantity (tonnes) for the application of upper-tier

requirements 200 t

· National regulations:

· Other regulations, limitations and prohibitive regulations

• Please note: Take care of the respective local regulations.

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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases 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.

Environment protection / Security of labour · Department issuing SDS:

Contact: Tel: +49 2871 9902-0 E-mail: mail@pergan.com

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the · Abbreviations and acronyms:

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 (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. D: Organic peroxides – Type C/D
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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