

Printing date 02.04.2024 Version: 12 (replaces version 11) Revision: 20.12.2022

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

· 1.1 Product identifier

PEROXAN BP-Pulver 20 · 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 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

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Eye Irrit. 2 H319 Causes serious eye 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 CLP regulation.



Warning

· Signal word

· Hazard-determining

components of labelling:

dibenzoyl peroxide

Hazard statements 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

smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264

Wash thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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

protection.

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

present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

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.

Determination of endocrine-

disrupting properties The product does not contain substances with endocrine disrupting properties.

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components:	angerous components:		
0.10.11.0	calcium sulfate substance with a Community workplace exposure limit	50-60%	
Reg-No.: 01-2119444918-26			
		20-25%	
· 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 No further relevant information available

delaved 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.

5.3 Advice for firefighters

· Protective equipment: Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray.

· Additional information Self-protection first!

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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:

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

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.

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

Open and handle receptacle with care.

Prevent formation of dust.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Before break and at the end of work hands should be thoroughly washed.

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.

Avoid shock and friction.

Information about fire - and explosion protection:

Protect from heat.

Prevent impact and friction.

Dust can combine with air to form an explosive mixture.

Substance/product is oxidising when dry.



Avoid open flames, sparks, direct sunlight and other sources of ignition.

· 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:

Further information about storage conditions:

Store away from foodstuffs, drinks and feeding stuffs.

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):

max.: +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

	o. i Control parami	5.615	
	Ingredients with limit values that require monitoring at the workplace:		
	7778-18-9 calcium	sulfate	
	OEL (Ireland)	Long-term value: 10 mg/m³	
94-36-0 dibenzoyl peroxide		peroxide	
	OEL (Ireland)	Long-term value: 5 mg/m³	
		Sens	

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

· DNELs

94-36-0 dibenzoyl 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)

·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 PNEC STP 0,0013 mg/kg sed dw 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.

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· 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 P2

· 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

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

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: Not applicable. Boiling point or initial boiling point and boiling range

· Flammability

· Lower and upper explosion limit

· Lower:

· Flash point: Decomposition temperature:

· pH

· Upper:

· Viscosity:

Kinematic viscosity

· Dynamic: Solubility

· water: · Partition coefficient n-octanol/water (log value)

· Vapour pressure:

· Density and/or relative density

Density:

Relative density · Bulk density at 20 °C: Vapour density

greywhite

Characteristic Not determined.

Not applicable.

May cause fire.

Not determined. Not determined.

Not applicable. +60 °C (SADT) Not applicable.

Not applicable.

Not applicable.

Undetermined. not determined Not applicable.

Not determined. Not determined.

560 kg/m³ Not applicable.

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•	Pariicie	Characteristics

See section 3.

9.2 Other information No further relevant information available.

Appearance:

· Form: Solid Powder

· Important information on protection of health and environment,

and on safety.

· Ignition temperature: Product is not selfigniting

Not determined. **Explosive properties:**

· Change in condition

Evaporation rate Not applicable.

· 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 gases in contact with water Void Oxidising liquids Void · Oxidising solids Void Organic peroxides Void · Corrosive to metals Void Void

· Desensitised explosives Other safety characteristics

1,3 - 1,4 % Active oxygen

SECTION 10: Stability and reactivity

· 10.1 Reactivity

· 10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No further relevant information available.

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.

· 10.3 Possibility of hazardous

reactions

Self-accelerating decomposition at SADT.

10.4 Conditions to avoid

· Additional information:

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.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Based on available data, the classification criteria are not met. Acute toxicity

· 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.

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(Contd. of page 5) 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. · 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 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:

7778-18-9 calcium sulfate

Degradation (The study does not need to be conducted)

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

· 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 REACH, annex XIII. · PRT·

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

· 12.6 Endocrine disrupting

The product does not contain substances with endocrine disrupting properties. properties

12.7 Other adverse effects No further relevant information available.

Additional ecological information:

General notes: 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



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)number.

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 UN3077

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3,2 (20 °C)



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· 14.2 UN proper shipping name · ADR UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE) · IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE), MARINE POLLUTANT ·IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE) · 14.3 Transport hazard class(es) · ADR $dh_{\mathbf{x}}$ · Class 9 (M7) Miscellaneous dangerous substances and articles. · Label · IMDG, IATA · Class 9 Miscellaneous dangerous substances and articles. · Label · 14.4 Packing group · ADR, IMDG, IATA · 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) Special marking (IATA): Symbol (fish and tree) · 14.6 Special precautions for user Warning: Miscellaneous dangerous substances and articles. Stowage Category · Stowage Code SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.

· 14.7 Maritime transport in bulk according to IMO instruments Not applicable

· Transport/Additional information: Not subject to the requirement for Class 5.2. (exempt) · ADR

Limited quantities (LQ)

5 kg Excepted quantities (EQ) Code: F1

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g 3

· Transport category Е · Tunnel restriction code · IMDG

· Limited quantities (LQ)

5 kg Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

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 E1 Hazardous to the Aquatic Environment

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

100 t

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

200 t

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

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 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.

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

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Tel: +49 2871 9902-0 · Contact:

E-mail: mail@pergan.com

· Version number of previous version:

· 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 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

VPUB: very Persistent and very Bioaccumulative Org. Perox. B: Organic peroxides – Type B Org. Perox. G: Organic peroxides – Type G Eye Irrit. 2: Serious eye damage/eye irritation – Skin Sens. 1: Skin sensitisation – Category 1

Category 2

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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