

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

• Trade name: PEROXAN BP-Pulver 20

· 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

· 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

Org. Perox. G

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.



Warning

GHS07

· Signal word

· Hazard-determining

components of labelling:

abelling: dibenzoyl peroxide

Hazard statements
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

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 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

· Dangerous components:

CAS: 94-36-0 dibenzoyl peroxide EINECS: 202-327-6 Org Perox B H24

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

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20-25%



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· 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 guiet.

· 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 5.3 Advice for firefighters Under certain fire conditions, traces of other toxic gases cannot be excluded.

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

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.

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.

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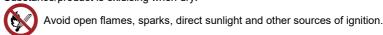


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Substance/product is oxidising when dry.

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· 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

Store only in the original receptacle.

storerooms and receptacles:

Prevent any seepage into the ground.

Use only receptacles specifically permitted for this substance/product.

· Information about storage in one common storage facility:

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

quality):

max.: +30 °C

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:
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94-36-0 dibenzoyl peroxide

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 0.013 mg/kg sed dw PNEC STP 0.35 mg/l

0.000002 mg/l (AF 500) **PNEC Marinewater**

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 P2

· Hand protection Only use chemical-protective gloves with CE-labelling of category III.

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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 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: greywhite · Odour: Characteristic Odour threshold: Not determined. · Melting point/freezing point: Not applicable.

Boiling point or initial boiling point and boiling range Not applicable. May cause fire.

· Flammability

Lower and upper explosion limit

· Lower: · Upper:

· Flash point: Not applicable. Decomposition temperature: +60 °C (SADT) · pH Not applicable.

· 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

No further relevant information available.

9.2 Other information Appearance:

· Form:

· Important information on protection of health and environment, and on safety.

· Ignition temperature:

· Explosive properties: Change in condition

· Evaporation rate

· Information with regard to physical hazard classes · Explosives

Flammable gases · Aerosols · Oxidising gases · Gases under pressure

· Flammable liquids · Flammable solids

· Self-reactive substances and mixtures

Solid

Powder

Product is not selfigniting.

Not determined.

Not determined.

Not determined.

Not applicable.

Not applicable.

Undetermined.

not determined

Not applicable.

Not determined.

Not determined.

Not applicable.

560 kg/m3

Not applicable.

Void

Void Void Void

Void Void

Void Void

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 Pvrophoric 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

· Desensitised explosives · Other safety characteristics

Active oxygen 1.3 - 1.4 %

SECTION 10: Stability and reactivity

No further relevant information available. · 10.1 Reactivity

10.2 Chemical stability · Thermal decomposition /

conditions to be avoided: SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating

Void

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 10.4 Conditions to avoid Self-accelerating decomposition at SADT. No further relevant information available.

· 10.5 Incompatible materials:

· Additional information:

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:

Hvdrocarbons, 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

· 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 Germ cell mutagenicity

· Reproductive toxicity

Carcinogenicity

sensitisation

May cause an allergic skin reaction. 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. Based on available data, the classification criteria are not met.

STOT-single exposure · 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)

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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

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

· 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

· 14.2 UN proper shipping name

· ADR

UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE) · IMDG ENVIRÒNMENTALLY 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



· Class 9 (M7) Miscellaneous dangerous substances and articles.

Label

· IMDG, IATA



· Class 9 Miscellaneous dangerous substances and articles. · Label 9

· 14.4 Packing group

· ADR, IMDG, IATA Ш

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(Contd. of page 6) · 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** SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9. · Stowage Code · 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) Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g · Transport category Tunnel restriction code Ε ·IMDG 5 kg · Limited quantities (LQ) 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
- · 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
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

Qualifying quantity (tonnes) for

the application of upper-tier

requirements 200 t

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.

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· 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

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) · Abbreviations and acronyms:

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

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
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic

PVB: 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 –

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.

GB -