

Printing date 02.04.2024 Version: 12 (replaces version 11) Revision: 15.02.2023

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

· 1.1 Product identifier

PEROXAN BP-25 WD · 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

Environment protection / Security of labour from:

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. C H242 Heating may cause a fire. 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 Hazard pictograms

Regulation (EC) No 1272/2008

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



· Signal word

· Hazard-determining

components of labelling:

dibenzoyl peroxide **Hazard statements**

H242 Heating may cause a fire. H319 Causes serious eye irritation.

Danger

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects. P210

· Precautionary statements 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.

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 +40°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 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.

МТ



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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components: 70-80% CAS: 94-36-0 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.

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:

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.

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:

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

Remove persons from danger area. 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.

Handle with care. Avoid jolting, friction and impact. 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.

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.

Store under lock and key and with access restricted to technical experts or their assistants only.

Storage in a collecting room is required.

 Recommended storage temperature (To maintain

quality):

max.: +35 °C

Storage class: 4.1A

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 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 0,00002 mg/l (AF 50) PNEC Freshwater 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.

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.

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

White · Colour: · 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: Not determined. Not determined. · Upper:

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Flash point:
Decomposition temperature:
Not applicable.
+80 °C (SADT)

· Viscosity:

· Kinematic viscosity

pH (30 g/l) at 20 °C

· Dynamic:

·Solubility

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

· Vapour pressure:

Vapour density

· Density and/or relative density

Density at 20 °C:
Relative density
Bulk density at 20 °C:

Particle characteristics

Not determined. 500 kg/m³

500 kg/m³ Not applicable.

0,63 g/cm³

Not applicable.

Not applicable.

Undetermined.

not determined

Not applicable.

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.

Explosive properties: Risk of explosion by shock, friction, fire or other sources of ignition.

Void

Void

· Change in condition

· Evaporation rate Not applicable.

· Information with regard to physical hazard classes · Explosives

Explosives Void
Flammable gases Void
Aerosols Void
Oxidising gases Void

Gases under pressure

Flammable liquids

Flammable solids

Self-reactive substances and mixtures

Void

Pyrophoric liquids

Void

Pyrophoric solids
Self-heating substances and mixtures

Substances and mixtures, which emit flammable gases in contact with water

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 4,8 - 5,1 %

SECTION 10: Stability and reactivity

10.1 Reactivity No fur

· 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 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

· 10.4 Conditions to avoid

Self-accelerating decomposition at SADT. No further relevant information available.

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• 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

· 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

sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Aspiration hazard
 Based on available data, the classification criteria are not met.
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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

12.4 Mobility in soil
 12.5 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.

· 12.6 Endocrine disrupting

propertiesThe product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effectsNo 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 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.

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3,2 (20 °C)



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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 system.

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

number.

· Uncleaned packaging:

· ADR

· Limited quantities (LQ)

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

| AP. IND number or ID number ADR, IMDG, IATA IA.2 UN proper shipping name ADR ADR IMDG IMDG IMDG IMDG IATA I | SECTION 14: Transport information | |
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| ADR, IMDG, IATA Void Product contains environmentally hazardous substances: DIBENZOYL PEROXIDE Marine pollutant: Yes Symbol (fish and tree) Symbol (fish and tree) 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category Stowage Code Sw1 Protected from sources of heat. Segregation Code SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. | | U.L |
| 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category Stowage Code Segregation Code Product contains environmentally hazardous substances: DIBENZOYL PEROXIDE Yes Symbol (fish and tree) Warning: Organic peroxides. - D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. | | Void |
| Marine pollutant: PEROXIDE Yes Symbol (fish and tree) Special marking (ADR): 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category Stowage Code SW1 Protected from sources of heat. Segregation Code SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. | <u> </u> | |
| Marine pollutant: Yes Symbol (fish and tree) Special marking (ADR): Symbol (fish and tree) Yes Symbol (fish and tree) Yes Symbol (fish and tree) Warning: Organic peroxides. Hazard identification number (Kemler code): Stowage Category D Stowage Code SW1 Protected from sources of heat. Segregation Code SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. | 14.5 Environmental nazarus. | |
| Symbol (fish and tree) Special marking (ADR): 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category Stowage Code Sw1 Protected from sources of heat. Segregation Code SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. | Marine pollutant: | |
| 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category Stowage Code Sw1 Protected from sources of heat. Segregation Code SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. | • | |
| Hazard identification number (Kemler code): Stowage Category Stowage Code SW1 Protected from sources of heat. Segregation Code SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. | Special marking (ADR): | Symbol (fish and tree) |
| Stowage Category Stowage Code SW1 Protected from sources of heat. Segregation Code SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. | 14.6 Special precautions for user | 3 3 . |
| Stowage Code SW1 Protected from sources of heat. Segregation Code SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. | | |
| Segregation Code SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. | | |
| SG36 Stow "separated from" SGG18-alkalis. | · Segregation Code | |
| | | |
| | 14.7 Maritime transport in bulk according to IMO ins | |

100 g



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Not permitted as Excepted Quantity

· Excepted quantities (EQ) Code: E0

Transport category · Tunnel restriction code D

· RID / GGVSEB: like ADR

·IMDG

Limited quantities (LQ) 100 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

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.

· 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.

Department issuing SDS: Environment protection / Security of labour

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

· Version number of previous version:

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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 (REACH)
PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 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. C: Organic peroxides – Type C/D

Eye Irrit. 2: Serious eye damage/eye irritation – Skin Sens. 1: Skin sensitisation – Category 1 Category 2

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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31



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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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