

Printing date 02.04.2024 Version: 11 (replaces version 10) Revision: 20.12.2022

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

· 1.1 Product identifier

PEROXAN BIB-40 PK · 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

Flam. Sol. 1

H228 Flammable solid.

Org. Perox. G

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

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.



· Signal word

Danger

· Hazard-determining

components of labelling:

[1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide H228 Flammable solid.

Hazard statements

H413 May cause long lasting harmful effects to aquatic life.

· Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No P210

P240 Ground and bond container and receiving equipment.

Use explosion-proof [electrical/ventilating/lighting] equipment. P241

Avoid release to the environment. P273

P280 Wear eye protection / face protection.

P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.

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.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

 Dangerous components: CAS: 25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide 30-40% EINECS: 246-678-3 Org. Perox. D, H242; Aquatic Chronic 4, H413

Reg-No.: 01-2119495677-17 Additional information:

For the wording of the listed hazard phrases refer to section 16.

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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: Take affected persons into fresh air and keep quiet. After skin contact: Immediately remove contaminated clothing.

Rinse opened eye for several minutes under running water. After eye contact:

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

No further relevant information available.

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: 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

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.

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.

Substance/product is oxidising when dry.



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

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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 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:

Store away from foodstuffs, drinks and feeding stuffs.

Further information about

storage conditions:

Protect from heat and direct sunlight. Protect from contamination.

· 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

· Ingredients with limit values that require monitoring at the

workplace:

The product does not contain any relevant quantities of materials with critical values that have to be

monitored at the workplace.

·DNELs

25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide

DNEL Longterm System 28 mg/kg bw/day (Worker) Inhalative DNEL Longterm System 19,7 mg/m3 (Worker)

· PNECs

25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide

PNEC Marinewater sed | 0,892 mg/kg sed dw (AF 1.000) 8,9 mg/kg sed dw (AF 100) PNEC Freshwater sed

PNEC STP 100 mg/l (AF 10)

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.

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

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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 or	basic physical a	and chemical properties
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· General Information

· Colour:

· Odour: · Odour threshold:

· Melting point/freezing point:

· Boiling point or initial boiling point and boiling range

· Flammability

Lower and upper explosion limit

· Lower:

· Upper:

· Flash point:

Decomposition temperature:

· pH

· Viscosity:

· Kinematic viscosity

· Dynamic:

· Solubility

· water:

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

· Vapour pressure:

Density and/or relative density

· Density at 20 °C: · Relative density

· Bulk density at 20 °C:

Vapour density

Particle characteristics

white - yellowish

Characteristic

Not determined. Not applicable.

Not applicable.

May cause fire.

Not determined. Not determined

Not applicable.

+80 °C (SADT)

Not applicable.

Not applicable.

Not applicable.

Undetermined.

not determined

Not applicable.

1,5 g/cm³

Not determined.

360 kg/m³

Not applicable.

See section 3.

· 9.2 Other information

Appearance:

Form:

No further relevant information available.

Solid Powder

· Important information on protection of health and environment,

and on safety.

Ignition temperature:

· Explosive properties:

· Change in condition · Evaporation rate

Product is not selfianiting.

Not determined.

Not applicable.

· 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

Pyrophoric liquids · Pyrophoric solids

· Self-heating substances and mixtures

Substances and mixtures, which emit flammable gases in

contact with water

· Oxidising liquids · Oxidising solids

Void Void

Void Void Void

Void Flammable solid.

Void Void

Void Void

Void Void

Void

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 Organic peroxides Void Corrosive to metals Void **Desensitised explosives** Void

Other safety characteristics

· Active oxygen 3,7 - 3,9 %

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

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. No further relevant information available.

· 10.4 Conditions to avoid 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:

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

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

LD/LC50 values relevant for classification:

25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide

Oral LD50 >5.000 mg/kg (rattus) Dermal LD50 >2.000 mg/kg (rattus)

Skin corrosion/irritation Based on available data, the classification criteria are not met. · Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin

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

25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide

LC50 / 96h | 750 mg/l (fish)

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

25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide

Degradation (Not readily biodegradable) (OECD 301 D)

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· 12.3 Bioaccumulative potential

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Partition coefficient: nOctanol/water: [Log Kow]

25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide

7,3 (20°C)

Bioconcentration factor (BCF)

25155-25-3 [1,3 (or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl] peroxide

BCF 1.820

· 12.4 Mobility in soil 12.5 Results of PBT and vPvB assessment

No further relevant information available.

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

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage

system.

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

· 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 UN1325

· 14.2 UN proper shipping name UN1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (DI-(tert-

BUTYLPEROXYISOPROPYL)-BENZENE(S)) · IMDG, IATA FLAMMABLE SOLID, ORGANIC, N.O.S. (DI-(tert-

BUTYLPEROXYISOPROPYL)-BENZENE(S))

· 14.3 Transport hazard class(es)

· ADR



4.1 (F1) Flammable solids, self-reactive substances, polymerizing · Class

substances and solid desensitized explosives

· Label

· IMDG, IATA



· Class 4.1 Flammable solids, self-reactive substances, polymerizing substances

and solid desensitized explosives · Label 4.1

· 14.4 Packing group

· ADR, IMDG, IATA

· 14.5 Environmental hazards: Not applicable.

· 14.6 Special precautions for user Warning: Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives

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· EMS Number: F-A,S-G Stowage Category

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

· Transport/Additional information:

· Limited quantities (LQ) 1 kg Excepted quantities (EQ) Code: E2

> Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g

· Transport category · Tunnel restriction code Ε

· Limited quantities (LQ) 1 kg Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 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.
- 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
- 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:

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)

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 Flam. Sol. 1: Flammable solids – Category 1

Org. Perox. D: Organic peroxides – Type C/D
Org. Perox. G: Organic peroxides – Type G
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

* Data compared to the previous version altered.

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