

Printing date 29.12.2023 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

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

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 GB CLP regulation.



Danger

· Signal word

· Hazard-determining Hazard statements

components of labelling:

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

H228 Flammable solid.

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

P273 Avoid release to the environment. 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 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: 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: Requirements to be met by Pay attention to the special requirements of your local autorithies for storing dangerous goods.

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

· 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) PNEC Freshwater sed 8.9 mg/kg sed dw (AF 100)

PNFC STP 100 mg/l (AF 10)

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering

No further data; see section 7. controls

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

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

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· Eye/face protection

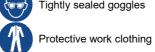
Tightly sealed goggles

· Body protection:

Oxidising solids
Organic peroxides

Corrosive to metals

· Desensitised explosives



SECTION 9: Physical and chemical properties	
· 9.1 Information on basic physical and chemical properties	
· General Information	
· Colour:	white - yellowish
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not applicable.
Boiling point or initial boiling point and boiling range	Not applicable.
· Flammability	May cause fire.
Lower and upper explosion limit	,
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
Decomposition temperature:	+80 °C (SADT)
· pH	Not applicable.
· Viscosity:	
· Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	
· water:	Undetermined.
Partition coefficient n-octanol/water (log value)	not determined
· Vapour pressure:	Not applicable.
Density and/or relative density	• • • • • • • • • • • • • • • • • • • •
Density at 20 °C:	1.5 g/cm³
Relative density	Not determined.
· Bulk density at 20 °C:	360 kg/m³
	J Company of the comp
· Vapour density	Not applicable.
· Vapour density	Not applicable. No further relevant information available
9.2 Other information	No further relevant information available.
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Other safety characteristics

 Active oxygen 3.7 - 3.9 %

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.

· 10.3 Possibility of hazardous

reactions

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

· 10.5 Incompatible materials:

· 10.4 Conditions to avoid

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:

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

LD50 >5,000 mg/kg (rattus) Dermal LD50 >2,000 mg/kg (rattus)

Skin corrosion/irritation · Serious eye damage/irritation

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

Respiratory or skin sensitisation · Germ cell mutagenicity

Carcinogenicity

Aspiration hazard

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. · 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. 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 (piscis)

- 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)

- 12.3 Bioaccumulative potential
- · 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)



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· 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 No further relevant information available.

12.5 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.

· 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 1 (German Regulation) (Self-assessment): slightly hazardous for water

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

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 UN1325

14.2 UN proper shipping name

UN1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (DI-(tert-

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

· 14.3 Transport hazard class(es)

· ADR



· IMDG, IATA

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

substances and solid desensitized explosives 4.1

· Label

· IMDG, IATA

4.1 Flammable solids, self-reactive substances, polymerizing substances · Class and solid desensitized explosives

· Label 4.1

· 14.4 Packing group · ADR, IMDG, IATA П

· 14.5 Environmental hazards: Not applicable.

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

R

substances and solid desensitized explosives

· EMS Number: F-A,S-G

· Stowage Category

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

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· Transport/Additional information:

· ADR

· 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

· IMDG

· 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

· 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 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 (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.

· 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 H242 Heating may cause a fire.

H413 May cause long lasting harmful effects to aquatic life.

· Department issuing SDS: Environment protection / Security of labour

Tel: +49 2871 9902-0 · Contact: 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:

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 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

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Safety data sheet according to 1907/2006/EC, Article 31



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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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