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



Printing date 26.03.2020 Version: 6 Revision: 10.03.2020

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

· 1.1 Product identifier

• Trade name: PEROXAN BIB-40 EV-G

· 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

Competent person:

* Sales Manager Germany: Mr. Ansgar Pappenheim, e-mail: a.pappenheim@pergan.com * Export Sales Manager: Mr. Dr. Thomas Philipps, e-mail: dr.philipps@pergan.com

* Environment protection / : Mr. Christoph Wilting, e-mail: c.wilting@pergan.com

Security of labour

· 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

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

· Hazard pictograms Void · Signal word Void

· Hazard-determining

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

Hazard statements H413 May cause long lasting harmful effects to aquatic life.

• **Precautionary statements** P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

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

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

• After swallowing: If symptoms persist consult doctor.

(Contd. on page 2)

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



(Contd. of page 1)

Printing date 26.03.2020 Version: 6 Revision: 10.03.2020

Trade name: PEROXAN BIB-40 EV-G

 4.2 Most important symptoms and effects, both acute and

delayed
4.3 Indication of any immedia

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 Protective equipment:

Additional information

Under certain fire conditions, traces of other toxic gases cannot be excluded.

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.

X

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.

· 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.

(Contd. on page 3)

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



Printing date 26.03.2020 Version: 6 Revision: 10.03.2020

Trade name: PEROXAN BIB-40 EV-G

Protect from contamination.

(Contd. of page 2)

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

· Additional information about

design of technical facilities: No further data; see item 7.

· 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)

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

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.



· Protection of hands: 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 protection:



Tightly sealed goggles

· Body protection:



Protective work clothing

GB

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



Printing date 26.03.2020 Version: 6 Revision: 10.03.2020

Trade name: PEROXAN BIB-40 EV-G

(Contd. of page 3)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

· Appearance:

Colour:

· Odour:

· Form: Solid

Granulate white - yellowish Characteristic

Not applicable.

Odour threshold: Not determined.pH-value: Not applicable.

· Change in condition

· Melting point/freezing point: Not applicable. · Initial boiling point and boiling range: Not applicable.

Flash point: Not applicable.Flammability (solid, gas): May cause fire.

Decomposition temperature: +80 °C (SADT)

• Auto-ignition temperature: Product is not selfigniting.

• Explosive properties: Not determined.

· Explosion limits:

Lower: Not determined.Upper: Not determined.

Vapour pressure: Not applicable.Density: Not determined.

Bulk density at 20 °C: 350 - 400 kg/m³
Relative density Not determined.
Vapour density Not applicable.

· Evaporation rate
· Solubility in / Miscibility with

water: Undetermined.

· Partition coefficient: n-octanol/water: not determined

· Viscosity:

Dynamic: Not applicable.Kinematic: Not applicable.

9.2 Other information No further relevant information available.

• **Active oxygen** 3.6 - 4.0 %

SECTION 10: Stability and reactivity

10.1 Reactivity No furthe

· 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

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.

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: 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.

GB -

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



Printing date 26.03.2020 Version: 6 Revision: 10.03.2020

Trade name: PEROXAN BIB-40 EV-G

(Contd. of page 4)

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- 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)

Primary irritant effect:

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

sensitisation

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

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

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

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 12.3 Bioaccumulative potential

No further relevant information available. No further relevant information available. No further relevant information available.

· 12.4 Mobility in soil 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

system.

· 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

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)-

Uncleaned packaging:

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

SECTION 14: Transport information

· 14.1 UN-Number

· ADR, IMDG, IATA Void

· 14.2 UN proper shipping name

· ADR, IMDG, IATA Void

· 14.3 Transport hazard class(es)

· ADR, IMDG, IATA

· Class Void

(Contd. on page 6)

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



Printing date 26.03.2020 Version: 6 Revision: 10.03.2020

Trade name: PEROXAN BIB-40 EV-G

(Contd. of page 5)

	(
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	e Not applicable.
· Transport/Additional information:	Not subject to the requirement for Class 5.2. (exempt)

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · 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 · Abbreviations and acronyms:

International Transport of Dangerous Goods by Rail)

ADR: Accord européen sur le transport 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

PB1: Persistent, Bloaccumulative and 1 oxic
vPvB: very Persistent and very Bioaccumulative
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.

GB -