

Printing date 01.04.2020 Version: 9 Revision: 31.03.2020

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

· 1.1 Product identifier

PEROXAN DC-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

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

H228 Flammable solid. Flam, Sol. 1

Org. Perox. G

Skin Irrit. 2 H315 Causes skin irritation. Eve Irrit. 2 H319 Causes serious eve irritation.

Aquatic Chronic 2 H411 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.







Danger

· Signal word

· Hazard-determining

components of labelling:

Hazard statements

bis(a,a-dimethylbenzyl) peroxide H228 Flammable solid. H315 Causes skin irritation.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

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

P240 Ground and bond container and receiving equipment. P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P264 Wash thoroughly after handling. P273 Avoid release to the environment. P280 Wear eye protection / face 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.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P391 Collect spillage.

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. Not applicable. · vPvR·

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SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

Dangerous components: CAS: 80-43-3 bis(a,a-dimethylbenzyl) peroxide 40-50% EINECS: 201-279-3 Org. Perox. F, H242; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319 Index number: 617-006-00-X Reg-No.: 01-2119541688-27

· 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: In case of unconsciousness place patient stably in side position for transportation.

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.

No further relevant information available

· 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 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

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

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

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.

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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:

Keep container tightly sealed.

Protect from heat and direct sunlight.

Protect from contamination.

Storage in a collecting room is required.

· Recommended storage temperature (To maintain

quality):

max.: +30 °C 5.2

· Storage class:

• 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 80-43-3 bis(a,a-dimethylbenzyl) peroxide Oral DNEL Longterm System DNEL Longterm

· PNECs

80-43-3 bis(a,a-dimethylbenzyl) peroxide

PNEC Freshwater 0,00234 mg/l (AF 50)
PNEC Freshwater sed PNEC Soil 0,447 mg/kg sed dw (-)
PNEC STP 0,00234 mg/l (AF 50)
2,24 mg/kg sed dw (-)
0,447 mg/kg soil dw (-)
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.

Avoid close or long term contact with the skin.

Avoid contact with the eyes and skin.

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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.

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Filter P2

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

observed.

· Eye 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

· Appearance: · Form:

Form: Solid Powder

Colour: white - yellowish
 Odour: Characteristic
 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)

2000 (C/CFT)

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:
 Relative density
 Vapour density
 Evaporation rate
 400 kg/m³
 Not determined.
 Not applicable.
 Not applicable.

· Solubility in / Miscibility with

water: Undetermined.

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

· Viscosity:

• **Dynamic:** Not applicable.

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· Kinematic: Not applicable.

No further relevant information available.

• **Active oxygen** 2,3 - 2,4 %

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

10.2 Chemical stability
Thermal decomposition /

9.2 Other information

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 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.

10.3 Possibility of hazardous

reactions Self-accelerating decomposition at SADT.

10.4 Conditions to avoid 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.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

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

 \cdot LD/LC50 values relevant for classification:

80-43-3 bis(a,a-dimethylbenzyl) peroxide

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

Primary irritant effect:

• Skin corrosion/irritation Causes skin irritation.
• Serious eye damage/irritation Causes serious eye irritation.

· Respiratory or skin

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

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

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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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

80-43-3 bis(a,a-dimethylbenzyl) peroxide

EC50 / 72h | >20 mg/l (alga)

EC50 >1.000 mg/l (activa sludge)

12.2 Persistence and

degradabilityNo further relevant information available. **12.3 Bioaccumulative potential**No further relevant information available.

• 12.4 Mobility in soil

No further relevant information available.

Ecotoxical effects:

· Remark: Toxic for fish

Additional ecological information:

General notes: Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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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.

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

· 14.6 Special precautions for user

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Warning: Flammable solids, self-reactive substances and solid

desensitised explosives.

· 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.

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SECTION 14: Transport information	
· 14.1 UN-Number · ADR, IMDG, IATA	UN1325
· 14.2 UN proper shipping name · ADR	UN1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (DICUMYL PEROXIDE), ENVIRONMENTALLY HAZARDOUS
· IMDG	FLAMMABLE SOLID, ORGANIC, N.O.S. (DICUMYL PEROXIDE), MARINE POLLUTANT
· IATA	FLAMMABLE SOLID, ORGANIC, N.O.S. (DICUMYL PEROXIDE)
· 14.3 Transport hazard class(es)	
· ADR	
4 *** ********************************	
Class	4.1 (F1) Flammable solids, self-reactive substances and solid desensitised explosives.
· Label	4.1
· IMDG	
· Class	4.1 Flammable solids, self-reactive substances and solid desensitised explosives.
· Label 	4.1
· IATA	
(
· Class	4.1 Flammable solids, self-reactive substances and solid desensitised explosives.
· Label	4.1
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: DICUMYL PEROXIDE
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)



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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

Excepted quantities (EQ)

- ANNEX I None of the ingredients is listed.

E2 Hazardous to the Aquatic Environment Seveso category

Qualifying quantity (tonnes) for the application of lower-tier

200 t requirements Qualifying quantity (tonnes) for the application of upper-tier

500 t requirements

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

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 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 vPvB: very Persistent and very Bioaccumulative Flam. Sol. 1: Flammable solids – Category 1 Org. Perox. F: Organic peroxides — Type E/F
Org. Perox. G: Organic peroxides — Type G
Skin Irrit. 2: Skin corrosion/irritation — Category 2
Eye Irrit. 2: Serious eye damage/eye irritation — Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

· * Data compared to the previous version altered.

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