

Printing date 11.12.2023 Version: 10 (replaces version 9) Revision: 19.07.2023

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

· 1.1 Product identifier

PEROXAN DC-80 P · 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

- Tel: +49 2871 9902-0 number:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Org. Perox. F H242 Heating may cause a fire. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation. Repr. 1B H360D May damage the unborn child.

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.









· Signal word Danger

· Hazard-determining

components of labelling: **Hazard statements**

bis(a,a-dimethylbenzyl) peroxide H242 Heating may cause a fire. H315 Causes skin irritation. H319 Causes serious eye irritation. H360D May damage the unborn child.

H411 Toxic to aquatic life with long lasting effects.

smokina.

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

> 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. P273 Avoid release to the environment

Wear protective gloves/protective clothing/eye protection/face protection/hearing P280

protection.

P305+P351+P338 F 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 +30°C. Keep cool.

P420 Store separately.

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

regulations.

 Additional information: Restricted to professional users.

· 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.

(Contd. on page 2)



Printing date 11.12.2023 Version: 10 (replaces version 9) Revision: 19.07.2023

Trade name: PEROXAN DC-80 P

(Contd. of page 1)

Determination of endocrinedisrupting properties

The product does not contain substances with endocrine disrupting properties

SECTION 3: Composition/information on ingredients

3.2 Mixtures

· Dangerous components: CAS: 80-43-3

EINECS: 201-279-3

bis(a,a-dimethylbenzyl) peroxide

70-80%

Index number: 617-006-00-X Reg-No.: 01-2119541688-27

Org. Perox. F, H242; Repr. 1B, H360D; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319

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:

After skin contact:

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.

Immediately wash with water and soap and rinse thoroughly.

Immediately remove contaminated clothing. · 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.

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.

Hydrocarbons, carbondioxide and -monoxid.

· 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

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.

(Contd. on page 3)



Printing date 11.12.2023 Version: 10 (replaces version 9) Revision: 19.07.2023

Trade name: PEROXAN DC-80 P

(Contd. of page 2)

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.

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.

Storage in a collecting room is required.

· Recommended storage temperature (To maintain

quality):

max.: +30 °C

Storage class: 52

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 80-43-3 bis(a,a-dimethylbenzyl) peroxide DNEL Longterm System 0,4 mg/kg bw/day (General population) Oral Dermal DNEL Longterm System 0,8 mg/kg bw/day (Worker) 0,4 mg/kg bw/day (General population)

(Contd. on page 4)



Printing date 11.12.2023 Version: 10 (replaces version 9) Revision: 19.07.2023

Trade name: PEROXAN DC-80 P

Inhalative DNEL Longterm System 5,6 mg/m3 (Worker)
1,4 mg/m3 (General population)

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

PNEC Freshwater
PNEC Freshwater sed
PNEC Soil
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
 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.

Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the

degradation

• 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/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

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 · Lower and upper explosion limit

Lower and upper explosion limit

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

(Contd. on page 5)

May cause fire.



Printing date 11.12.2023 Version: 10 (replaces version 9) Revision: 19.07.2023

Not applicable.

Not applicable.

Undetermined.

not determined

Not applicable.

Not determined.

Not determined.

Not applicable.

520 kg/m³

Trade name: PEROXAN DC-80 P

(Contd. of page 4)

· Viscosity:

Kinematic viscosity

Dynamic:

Solubility

· water:

Partition coefficient n-octanol/water (log value)

· Vapour pressure:

· Density and/or relative density

Density:

Relative density Bulk density at 20 °C: Vapour density

Particle characteristics

See section 3

9.2 Other information

Appearance:

· Form: 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 selfigniting.

mixtures are possible.

· 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 Organic peroxides

· Corrosive to metals · Desensitised explosives

Other safety characteristics

Active oxygen

No further relevant information available.

Product is not explosive. However, formation of explosive air/dust

Not applicable.

Void Void

Void Void

Void Void Void

Void Void Void

Void

Void Void Void

Heating may cause a fire.

Void Void

4,7 - 4,8 %

SECTION 10: Stability and reactivity

· 10.1 Reactivity

· 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 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. 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.

· 10.5 Incompatible materials: Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g.

heavy-metal compounds and amines).

(Contd. on page 6)



Printing date 11.12.2023 Version: 10 (replaces version 9) Revision: 19.07.2023

Trade name: PEROXAN DC-80 P

(Contd. of page 5)

· 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

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

LD/LC50 values relevant for classification:

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

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

· 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. Germ cell mutagenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. · Carcinogenicity · Reproductive toxicity May damage the unborn child.

Based on available data, the classification criteria are not met. STOT-single exposure · 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:

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

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

>1.000 mg/l (activa sludge)

12.2 Persistence and degradability

· Degree of elimination:

· Classification:

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

Degradation (Not readily biodegradable) (OECD 301 F)

12.3 Bioaccumulative potential

· Partition coefficient: nOctanol/water: [Log Kow]

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

5,6 (25°C)

· Bioconcentration factor (BCF)

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

BCF 747

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

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. Toxic for fish

· Remark:

· Additional ecological information:

Toxic for aquatic organisms General notes:

Also poisonous for fish and plankton in water bodies.

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

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Printing date 11.12.2023 Version: 10 (replaces version 9) Revision: 19.07.2023

· ADR

· Limited quantities (LQ)

Trade name: PEROXAN DC-80 P

(Contd. of page 6)

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

· 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.

14.1 UN number or ID number ADR, IMDG, IATA 14.2 UN proper shipping name	
14 2 IIN proper shipping name	UN3110
ADR	UN3110 ORGANIC PEROXIDE TYPE F, SOLID (DICUMYL PEROXIDE ENVIRONMENTALLY HAZARDOUS
IMDG	ORGANIC PEROXIDE TYPE F, SOLID (DICUMYL PEROXIDE), MARII POLLUTANT
IATA	ORGANIC PEROXIDE TYPE F, SOLID (DICUMYL PEROXIDE)
14.3 Transport hazard class(es)	
ADR	
Class	5.2 (P1) Organic peroxides.
· Label	5.2
· Class	5.2 Organic peroxides.
Label	5.2
IATA Class	5.2 Organic peroxides.
Label	5.2
14.4 Packing group ADR, IMDG, IATA	Void
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)
14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category Stowage Code Segregation Code	Warning: Organic peroxides. D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.

500 g



Printing date 11.12.2023 Version: 10 (replaces version 9) Revision: 19.07.2023

Trade name: PEROXAN DC-80 P

(Contd. of page 7)

· Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity Transport category · Tunnel restriction code D

· RID / GGVSEB: like ADR

·IMDG

Limited quantities (LQ) 500 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

E2 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:

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. F: Organic peroxides – Type E/F Skin Irrit. 2: Skin corrosion/irritation – Category 2 Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Repr. 1B: Reproductive toxicity – Category 1B

(Contd. on page 9)

Page 9/9

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



Printing date 11.12.2023 Version: 10 (replaces version 9) Revision: 19.07.2023

Trade name: PEROXAN DC-80 P

(Contd. of page 8) 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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