

Printing date 02.04.2024 Version: 16 (replaces version 15) Revision: 15.02.2023

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

· 1.1 Product identifier

PEROXAN BP-Pulver 50 W · 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. D H242 Heating may cause a fire. Eye Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. Repr. 1B H360D May damage the unborn child. Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

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









GHS02 GHS07 GHS08 GHS09

· Signal word Danger

· Hazard-determining

components of labelling:

dicyclohexyl phthalate

dibenzoyl peroxide

· Hazard statements H242 Heating may cause a fire.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H360D May damage the unborn child.

H410 Very toxic to aquatic life with long lasting effects.

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

smokina.

P220 Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).

Keep only in original packaging. P234 P264 Wash thoroughly after handling. P273 Avoid release to the environment.

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

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.

P410 Protect from sunlight.

P411+P235 Store at temperatures not exceeding +30°C. Keep cool.

P420 Store separately.

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

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.

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• Determination of endocrine-disrupting properties

84-61-7 | dicyclohexyl phthalate | List I; II

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components:		
CAS: 84-61-7 EINECS: 201-545-9 Index number: 607-719-00-4 Reg-No.: 01-2119978223-34	dicyclohexyl phthalate Repr. 1B, H360D; Skin Sens. 1, H317; Aquatic Chronic 3, H412	40-50%
CAS: 94-36-0 EINECS: 202-327-6 Index number: 617-008-00-0 Reg-No.: 01-2119511472-50		40-50%
· SVHC		
84-61-7 dicyclohexyl phthala	te	
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: Supply fresh air and to be sure call for a doctor.

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.

• 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

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: CC

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: D
Additional information C

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.

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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.

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. heavymetal 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.

 \cdot 7.2 Conditions for safe storage, including any incompatibilities

• Storage: 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:

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): ma

• Storage class: 5.
• 7.3 Specific end use(s)

max.: +30 °C

No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

6.1 Control parameters						
· Ingredier	· Ingredients with limit values that require monitoring at the workplace:					
84-61-7 dicyclohexyl phthalate						
OEL (Ireland) Long-term valu		ong-term value	: 5 mg/m³			
WEL (Great Britain) Long-term value: 5 mg/m³						
94-36-0 dibenzoyl peroxide						
OEL (Ireland) Long-term v Sens		ong-term value ens	:: 5 mg/m³			
WEL (Great Britain) Long-term value: 5 r			: 5 mg/m³			
DNELs						
84-61-7 dicyclohexyl phthalate						
Dermal	DNEL Long	term System 0	0,5 mg/kg bw/day (Worker)			
Inhalative	Inhalative DNEL Longterm System		35,2 mg/m3 (Worker)			
94-36-0 di	94-36-0 dibenzoyl peroxide					
Oral	DNEL Long	term System 2	2 mg/kg bw/day (General population)			
Dermal	DNEL Long	term System 1	13,3 mg/kg bw/day (Worker)			
Inhalative DNEL Longterm System		term System 3	39 mg/m3 (Worker)			
·PNECs						
84-61-7 dicyclohexyl phthalate						
PNEC Ma	PNEC Marinewater sed 0,106 mg/k		sed dw			
PNEC Fre	shwater	0,004 mg/l (A	AF 50)			
PNEC Fre	PNEC Freshwater sed 1,06 mg/kg		sed dw			
PNEC Soi	PNEC Soil 0,21 n		,21 mg/kg soil dw			
PNEC STP 10 mg/		10 mg/l (AF	0 mg/l (AF 10)			
PNEC Marinewater 0 mg/l (AF		0 mg/l (AF 5	00)			
94-36-0 dibenzoyl peroxide						
PNEC Marinewater sed 0,001 mg/kg sed dw						
'		0,00002 mg/				
PNEC Freshwater sed 0,013 mg/kg sed dw		sed dw				

0,000002 mg/l (AF 500) Additional information:

The lists valid during the making were used as basis.

8.2 Exposure controls

PNEC Marinewater

PNEC STP

Appropriate engineering

controls No further data; see section 7.

0,35 mg/l

· 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.

Only use chemical-protective gloves with CE-labelling of category III. · Hand protection

Filter P2

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

Protective gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of · Material of gloves

quality and varies from manufacturer to manufacturer.

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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

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:

· Relative density · Bulk density at 20 °C:

Vapour density

· Particle characteristics

Whitish

Characteristic

Not determined.

Not applicable.

Not applicable.

May cause fire.

Not determined. Not determined.

Not applicable. +60 °C (SADT)

Not applicable.

Not applicable.

Not applicable.

Undetermined. not determined

Not applicable.

Not determined. Not determined.

610 kg/m3

Not applicable.

See section 3

9.2 Other information

No further relevant information available.

· Appearance:

Form:

Solid

Powder

· Important information on protection of health and environment,

and on safety.

Ignition temperature: · Explosive properties: Product is not selfigniting.

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

mixtures are possible.

· Change in condition

· Evaporation rate

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

Void Void Void Void

> Void Void Void Void

Void

Void

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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

Void

Void Void

Void

Heating may cause a fire.

Void

Void

3,2 - 3,5 %

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 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.

To avoid thermal decomposition do not overheat.

· 10.3 Possibility of hazardous

reactions

· 10.4 Conditions to avoid

· 10.5 Incompatible materials:

No further relevant information available. Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g.

heavy-metal compounds and amines).

Self-accelerating decomposition at SADT.

· 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:

84-61-7 dicyclohexyl phthalate

Oral LD50 >2.000 mg/kg (rattus)

94-36-0 dibenzoyl peroxide

Oral LD50 >5.000 mg/kg (rattus)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation

Respiratory or skin

Causes serious eye irritation.

sensitisation May cause an allergic skin reaction. Germ cell mutagenicity

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

Carcinogenicity

Based on available data, the classification criteria are not met. May damage the unborn child

Reproductive toxicity

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

84-61-7 dicyclohexyl phthalate

List I; II

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

94-36-0 dibenzoyl peroxide

EC50 / 72h | 0,0711 mg/l (pseudokirchneriella subcapitata)

LC50 / 96h 0,0602 mg/l (oncorhynchus mykiss)

EC50 / 48h | 110 mg/l (daphnia)

12.2 Persistence and degradability

Degree of elimination:

· Classification:

84-61-7 dicyclohexyl phthalate

Degradation (Readily biodegradable)

94-36-0 dibenzoyl peroxide

Degradation (Readily biodegradable) (OECD 301 D)

12.3 Bioaccumulative potential

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

84-61-7 dicyclohexyl phthalate	4,82 (25 °C)
94-36-0 dibenzovl peroxide	3.2 (20 °C)

· Bioconcentration factor (BCF)

84-61-7 dicyclohexyl phthalate

BCF 85

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

· 12.6 Endocrine disrupting

properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects No further relevant information available.

· Remark: Very toxic for fish

· Additional ecological information:

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

Very toxic for aquatic organisms

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.

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 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 UN3106

· 14.2 UN proper shipping name

• ADR UN3106 ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE), ENVIRONMENTALLY HAZARDOUS

· IMDG ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE),

MARINE POLLUTANT

· IATA ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)

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· 14.3 Transport hazard class(es)

· ADR





· Class 5.2 (P1) Organic peroxides. · Label 5.2

· IMDG





ClassLabel5.2 Organic peroxides.5.2

· IATA



ClassLabel5.2 Organic peroxides.5.2

· 14.4 Packing group · ADR, IMDG, IATA

ADR, IMDG, IATA Void

• 14.5 Environmental hazards: Product contains environmentally hazardous substances: DIBENZOYL

PEROXIDE Yes

Warning: Organic peroxides.

Marine pollutant: Special marking (ADR):

Symbol (fish and tree) Symbol (fish and tree)

· 14.6 Special precautions for user

Hazard identification number (Kemler code):

EMS Number: F-J,S-R Stowage Category D

Stowage Code
SW1 Protected from sources of heat.
Segregation Code
SG35 Stow "separated from" SGG1-acids
SG36 Stow "separated from" SGG18-alkalis.

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

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 500 g · Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

Transport category 2
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

E1 Hazardous to the Aquatic Environment

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

requirements 50 t

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

REGULATION (EC) No

1907/2006 ANNEX XVII

Conditions of restriction: 30

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.

· Substances of very high concern (SVHC) according to REACH, Article 57

dicyclohexyl phthalate

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 Heating may cause a fire or explosion.

May cause an allergic skin reaction. H317 H319 Causes serious eye irritation H360D May damage the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

Department issuing SDS: Environment protection / Security of labour

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· Contact: Tel: +49 2871 9902-0 E-mail: mail@pergan.com

· Version number of previous

version:

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

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 SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Org. Perox. B: Organic peroxides — Type B
Org. Perox. D: Organic peroxides — Type C/D
Eye Irrit. 2: Serious eye damage/eye irritation — Category 2

Skin Sens. 1: Skin sensitisation – Category 1
Repr. 1B: Reproductive toxicity – Category 1B
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard — Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard — Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard — Category 3

* Data compared to the previous version altered.

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