

Printing date 29.09.2022

Version: 3

Revision: 03.03.2021

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

### · 1.1 Product identifier

### **PEROXAN BP-Pulver 50 NB**

· Trade name:	PEROXAN BP-Pulver 50 NB
1.2 Relevant identified uses o	f the substance or mixture and uses advised against
	No further relevant information available.
· Application of the substance	e /
the mixture	Reaction initiator For industrial use
1.3 Details of the supplier of t	he 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 obtainab	le
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 th Classification accordi			72/2008
	0 0	( )	
Org. Perox. DH242 Heating may cause a fire.Eye Irrit. 2H319 Causes serious eye irritation.			
		e an allergic skin re	
	,	0	
•		to aquatic life.	
Aquatic Chronic 1 H41	10 Very toxic	to aquatic life with	long lasting effects.
· 2.2 Label elements · Labelling according to	·0		
Regulation (EC) No 12		The product is clas	sified and labelled according to the CLP regulation.
· Hazard pictograms		$\wedge$ $\wedge$	
	•	<b>&lt;些&gt;<!-- -->&lt;</b>	
	(	GHS02 GHS07 GH	1509
<ul> <li>Signal word</li> </ul>	I	Danger	
· Hazard-determining			
components of label	ling: d	dibenzoyl peroxide	
<ul> <li>Hazard statements</li> </ul>		H242 Heating may	
		H319 Causes seric	
			n allergic skin reaction.
		,	aquatic life with long lasting effects.
• Precautionary statem	nents		Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	I		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.
	-		Wash thoroughly after handling.
	-		Avoid release to the environment.
	1		Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	1		IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
			present and easy to do. Continue rinsing.
	I	P410	Protect from sunlight.
	I		Store at temperatures not exceeding +30°C. Keep cool.
			Do not mix with peroxide-accelerators or reducing agents.
	I		Dispose of contents/container in accordance with local/regional/national/international
· 2.3 Other hazards			regulations.

· Results of PBT and vPvB assessment

· PBT: Not applicable.

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· vPvB:

Not applicable.

### **SECTION 3: Composition/information on ingredients**

· Dangerous components:		
CAS: 94-36-0 EINECS: 202-327-6 Index number: 617-008-00-0 Reg-No.: 01-2119511472-50		40-50%
· 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

medical attention and special treatment needed	No further relevant information available.
<ul> <li>4.2 Most important symptoms and effects, both acute and delayed</li> <li>4.3 Indication of any immediate</li> </ul>	No further relevant information available.
<ul> <li>After eye contact:</li> <li>After swallowing:</li> </ul>	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. If symptoms persist consult doctor.
· After skin contact:	Take affected persons into fresh air and keep quiet. Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing.
· 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.
· General information:	Take care of personal protection for the first aider.

### **SECTION 5: Firefighting measures**

00	
· 5.1 Extinguishing media	
	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
<ul> <li>5.2 Special hazards arising from</li> </ul>	
the substance or mixture	Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.
<ul> <li>5.3 Advice for firefighters</li> </ul>	
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**

<ul> <li>6.1 Personal precautions, protective equipment and</li> </ul>	
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.
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In case of large spillage the environmental authority should be informed.

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#### **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. · 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**

neters nation about cal facilities: No further data; see item 7.	
limit values that require monitoring at the workplace:	
l peroxide	
Long-term value: 5 mg/m³ Sens	
n) Long-term value: 5 mg/m³	
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	nation about         cal facilities:       No further data; see item 7.         limit values that require monitoring at the workplace:         peroxide         Long-term value: 5 mg/m³         Sens

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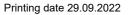
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·DNELs	(Contd. of page
94-36-0 dibenzoyl pero	vide
	erm System 2 mg/kg bw/day (General population)
	erm System 13,3 mg/kg bw/day (Worker)
-	erm System 39 mg/m3 (Worker)
· PNECs	
	vida
94-36-0 dibenzoyl pero PNEC Marinewater sed	
PNEC Freshwater	0.0002 mg/l (AF 50)
PNEC Freshwater sed	0,013 mg/kg sed dw
PNEC STP	0.35 mg/l
	5
PNEC Marinewater	0,000002 mg/l (AF 500)
· Additional informatio	<b>n:</b> The lists valid during the making were used as basis.
8.2 Exposure controls	
Personal protective ed	
<ul> <li>General protective an hygienic measures:</li> </ul>	The usual precautionary measures are to be adhered to when handling chemicals.
nygienic measures.	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.
<ul> <li>Respiratory protectio</li> </ul>	
	Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
	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 th
	degradation
· Material of gloves	Protective gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of
inatorial of groveo	quality and varies from manufacturer to manufacturer.
	Butyl rubber, BR
	Fluorocarbon rubber (Viton)
	Nitrile rubber, NBR
· Penetration time of g	Neoprene
material	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to
	observed.
<ul> <li>Eye protection:</li> </ul>	
	Tightly sealed goggles
· Body protection:	
	Protective work clothing
	<b>W</b>
SECTION 9: Physica	I and chemical properties
a.1 Information on bas	ic physical and chemical properties

· General Information	nd chemical properties	
Appearance:		
· Form:	Solid	
	Powder	
· Colour:	White	
· Odour:	Characteristic	
Odour threshold:	Not determined.	
· pH-value:	Not applicable.	
· Change in condition		
· Melting point/freezing point:	Not applicable.	





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· Active oxygen	3,2 - 3,4 %	
9.2 Other information	No further relevant information available.	
Kinematic:	Not applicable.	
· Dynamic:	Not applicable.	
Viscosity:		
Partition coefficient: n-octanol/v	vater: not determined	
· water:	Undetermined.	
Solubility in / Miscibility with		
· Evaporation rate	Not applicable.	
· Vapour density	Not applicable.	
· Relative density	620 kg/m³ Not determined.	
· Bulk density at 20 °C:		
Density:	Not determined.	
Vapour pressure:	Not applicable.	
· Upper:	Not determined.	
· Lower:	Not determined.	
Explosion limits:		
Explosive properties:	The product is shock-sensitive	
Auto-ignition temperature:	Product is not selfigniting.	
· Decomposition temperature:	+60 °C (SADT)	
Flammability (solid, gas):	May cause fire.	
Flash point:	Not applicable.	
· Initial boiling point and boiling	range: Not applicable.	
		(Contd. of pag

### SECTION 10: Stability and reactivity

,	-
· 10.1 Reactivity · 10.2 Chemical stability · Thermal decomposition /	No further relevant information available.
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. To avoid thermal decomposition do not overheat.
<ul> <li>10.3 Possibility of hazardous</li> </ul>	
reactions	Self-accelerating decomposition at SADT.
<ul> <li>10.4 Conditions to avoid</li> </ul>	No further relevant information available.
<ul> <li>10.5 Incompatible materials:</li> </ul>	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).
<ul> <li>10.6 Hazardous decomposition</li> </ul>	
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			
<ul> <li>Acute toxicity</li> </ul>	Based on available data, the classification criteria are not met.		
· LD/LC50 values relevant for cla	assification:		
94-36-0 dibenzoyl peroxide			
Oral LD50 >5.000 mg/kg (rattus)			
Primary irritant effect:			
Skin corrosion/irritation	Based on available data, the classification criteria are not met.		
• Serious eye damage/irritation	Causes serious eye irritation.		
Respiratory or skin			
sensitisation	May cause an allergic skin reaction.		
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Additional toxicological infor	mation:	
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.	
Aspiration hazard	Based on available data, the classification criteria are not met.	

### **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 (oncorhy	nchus mykiss)	
EC50 / 48h 110 mg/l (daphnia magna)		
12.2 Persistence and		
degradability	No further relevant information available.	
<ul> <li>12.3 Bioaccumulative potential</li> </ul>	No further relevant information available.	
<ul> <li>12.4 Mobility in soil</li> </ul>	No further relevant information available.	
<ul> <li>Ecotoxical effects:</li> </ul>		
· Remark:	Very toxic for fish	
<ul> <li>Additional ecological information</li> </ul>	on:	
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.	
12.5 Results of PBT and vPvB assessment		
· PBT:	Not applicable.	
· vPvB:	Not applicable.	
<ul> <li>12.6 Other adverse effects</li> </ul>	No further relevant information available.	

### **SECTION 13: Disposal considerations**

<ul> <li>· 13.1 Waste treatment methods</li> <li>· Recommendation</li> <li>· Waste disposal key:</li> </ul>	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. Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-
· Uncleaned packaging:	number.
· Recommendation:	This material and its container must be disposed of as hazardous waste.

SECTION 14: Transport information	
· 14.1 UN-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 · Label	5.2 (P1) Organic peroxides. 5.2
·IMDG	
· Class · Label	5.2 Organic peroxides.
	5.2
· Class · Label	5.2 Organic peroxides. 5.2
	5.2
· 14.4 Packing group · ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
<ul> <li>Marine pollutant:</li> <li>Special marking (ADR):</li> </ul>	Symbol (fish and tree) Symbol (fish and tree)
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> </ul>	Warning: Organic peroxides.
· 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.
<ul> <li>14.7 Transport in bulk according to Annex II of Marpol and t IBC Code</li> </ul>	Not applicable.
· Transport/Additional information:	
ADR	
· Limited quantities (LQ)	500 g
<ul> <li>Excepted quantities (EQ)</li> </ul>	Code: E0
· Transport category	Not permitted as Excepted Quantity 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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<ul> <li>Qualifying quantity (tonnes) fo the application of upper-tier requirements</li> </ul>	r (Contd. of page 7) 200 t
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 EXPL	DSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
· Annex II - REPORTABLE EXP	-OSIVES 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.

· Relevant phrases	H241 Heating may cause a fire or explosion. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
<ul> <li>Department issuing SDS:</li> <li>Contact:</li> </ul>	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com
• Abbreviations and acronyms:	C-Intal: 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)         IMDE: International Maritime Code for Dangerous Goods         IATA: International Air Transport Association         GHS: Globally Harmonised System of Classification and Labelling of Chemicals         ELINCS: 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, B: Organic peroxides – Type B         Org. Perox, D: Organic pero
previous version altered.	