Printing date 04.04.2024

Version: 6 (replaces version 5)

The Peroxide Company

Revision: 14.02.2023

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

· 1.1 Product identifier

### PEROXAN PMB-Paste 50 SI

· 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 el +49 2871 9902-0

	Fax: +49 2871 9902-0
<ul> <li>Further information obtainable from:</li> <li>1.4 Emergency telephone</li> </ul>	Qualified person: E-mail: msds@pergan.com
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 H242 Heating may cause a fire. Org. Perox. D 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 · Hazard pictograms

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

	GHS02 GHS09
· Signal word	Danger
<ul> <li>Hazard-determining components of labelling:</li> </ul>	bis(4-methylbenzoyl)peroxide
Hazard statements	H242 Heating may cause a fire. H410 Very 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 smoking.
	P234 Keep only in original packaging.
	P240 Ground and bond container and receiving equipment.
	P273 Avoid release to the environment.
	P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.
	P410 Protect from sunlight.
	P411+P235 Store at temperatures not exceeding +25°C. Keep cool.
	P420 Store separately
	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other hazards	
<ul> <li>Results of PBT and vPvB asse</li> </ul>	essment
· 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.
Determination of endocrine-	
disrupting properties	The product does not contain substances with endocrine disrupting properties.

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

· 3.2 Mixtures		
<ul> <li>Dangerous components:</li> </ul>		
CAS: 895-85-2 ELINCS: 407-950-9 Index number: 617-015-00-9 Reg-No.: 01-0000015733-70	bis(4-methylbenzoyl)peroxide Org. Perox. B, H241; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	49-52%
	(C	ontd. on page 2

Printing date 04.04.2024

Version: 6 (replaces version 5)

The Peroxide Company

Revision: 14.02.2023

## Trade name: PEROXAN PMB-Paste 50 SI

(Contd. of page 1) · 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: 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. 4.2 Most important symptoms and effects, both acute and delayed 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: Use fire extinguishing methods suitable to surrounding conditions. 5.2 Special hazards arising from Under certain fire conditions, traces of other toxic gases cannot be excluded. the substance or mixture Hydrocarbons, carbondioxide and -monoxid. 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 Remove persons from danger area. 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. Soak up with absorbant material (e. g. Vermiculit) and dispose of 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**

<ul> <li>7.1 Precautions for safe</li> </ul>	
handling	Keep away from heat and direct sunlight.
-	Open and handle receptacle with care.
	Prevent formation of aerosols.
	Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
	Handle with care. Avoid jolting, friction and impact.
	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.
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Printing date 04.04.2024

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31



Revision: 14.02.2023

#### Version: 6 (replaces version 5)

# Trade name: PEROXAN PMB-Paste 50 SI

	(Contd. of page 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. heav
	metal compounds and amines).
	While using do not eat, drink or smoke.
	Avoid shock and friction.
	Do not smoke.
Information about fire - and	
explosion protection:	Protect from heat.
	Prevent impact and friction.
	Fumes can combine with air to form an explosive mixture.
	Wear shoes with conductive soles.
	Formation of flammable or explosive gas/air-mixtures is 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.
<ul> <li>Information about storage in</li> </ul>	
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.
<ul> <li>Further information about</li> </ul>	
storage conditions:	Protect from heat and direct sunlight.
	Protect from contamination.
	Store under lock and key and with access restricted to technical experts or their assistants only.
	Storage in a collecting room is required.
<ul> <li>Recommended storage</li> </ul>	
temperature (To maintain	
quality):	+5 +25 °C
Storage class:	5.2
7.3 Specific end use(s)	No further relevant information available.

• 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.

		monitored at the workplace.		
· DNELs				
895-85-2 bis(4-methylb	enzoyl)perc	oxide		
Dermal DNEL Longte	erm System	33,33 mg/kg bw/day (Worker)		
Inhalative DNEL Longte	erm System	23,49 mg/m3 (Worker)		
PNECs				
895-85-2 bis(4-methylb	enzoyl)perc	oxide		
PNEC Marinewater sed	0,061 mg/k	g sed dw (-)		
PNEC Freshwater	0,064 mg/l	(AF 50)		
PNEC Freshwater sed	0,61 mg/kg	0,61 mg/kg sed dw (-)		
PNEC Soil	0,084 mg/k	0,084 mg/kg soil dw (-)		
PNEC STP	497 mg/l (AF 1)			
PNEC Marinewater	0,0064 mg/l (AF 500)			
· Additional informatio	n: 7	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:	7	The usual precautionary measures are to be adhered to when handling chemicals.	(Contd. on page 4)	



Version: 6 (replaces version 5)

The Peroxide Company

Revision: 14.02.2023

# Trade name: PEROXAN PMB-Paste 50 SI

		(Contd. of page
	Keep away from foodstuffs, I	
	Immediately remove all soile	
	Wash hands before breaks a	
	Store protective clothing sep	
	Do not eat, drink, smoke or s	
	Use skin protection cream fo	
Descrived and successfully a		ghly after work and before breaks.
Respiratory protection:	Not necessary if room is wel	i-ventilated.
	Use suitable respira	tory device when it exceed exposure limit and when insufficiently ventilated.
	Filter A2	
Hand protection	Only use chemical-protective	e gloves with CE-labelling of category III.
	Selection of the glov degradation	ve material on consideration of the penetration times, rates of diffusion and t
	Protective gloves	
· Material of gloves		gloves does not only depend on the material, but also on further marks of
	quality and varies from manu	litacturer to manufacturer.
	Butyl rubber, BR	
	Fluorocarbon rubber (Viton) Nitrile rubber, NBR	
	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
	observed.	
Eye/face protection		
	Tightly sealed goggl	es
Body protection:	Protective work clot	hing
		5
9.1 Information on basic physi		
9.1 Information on basic physi General Information		White
0.1 Information on basic physi General Information Colour:		White
9.1 Information on basic physi General Information Colour: Odour:		Characteristic
9.1 Information on basic physi General Information Colour: Odour: Odour threshold:	ical and chemical properties	Characteristic Not determined.
0.1 Information on basic physi General Information Colour: Odour: Odour threshold: Melting point/freezing point:	ical and chemical properties	Characteristic Not determined. Not applicable.
0.1 Information on basic physi General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling	ical and chemical properties	Characteristic Not determined. Not applicable. Not applicable.
0.1 Information on basic physi General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling Flammability	ical and chemical properties g point and boiling range	Characteristic Not determined. Not applicable.
0.1 Information on basic physi General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling Flammability Lower and upper explosion I	ical and chemical properties g point and boiling range	Characteristic Not determined. Not applicable. Not applicable. Not applicable.
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0.1 Information on basic physi General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling Flammability Lower and upper explosion I Lower: Upper: Flash point: Decomposition temperature:	ical and chemical properties g point and boiling range limit	Characteristic Not determined. Not applicable. Not applicable. Not determined. Not determined. > SADT +80 °C (SADT)
0.1 Information on basic physi General Information Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling Flammability Lower and upper explosion I Lower: Upper: Flash point: Decomposition temperature: pH	ical and chemical properties g point and boiling range limit	Characteristic Not determined. Not applicable. Not applicable. Not determined. Not determined. > SADT
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The Peroxide Company

### Trade name: PEROXAN PMB-Paste 50 SI

		(Contd. of page
· Change in condition		
· Evaporation rate	Not determined.	
Information with regard to physical hazard classes		
Explosives	Void	
· Flammable gases	Void	
Aerosols	Void	
· Oxidising gases	Void	
· Gases under pressure	Void	
Flammable liquids	Void	
· Flammable solids	Void	
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
· Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flammable ga	ases in	
contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Heating may cause a fire.	
· Corrosive to metals	Void	
· Desensitised explosives	Void	
Other safety characteristics		
· Active oxygen	2,9 - 3,1 %	

### **SECTION 10: Stability and reactivity**

· 10.1 Reactivity

No further relevant information available.

<ul> <li>10.2 Chemical stability</li> <li>Thermal decomposition /</li> </ul>	
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.
· 10.3 Possibility of hazardous	
reactions	Self-accelerating decomposition at SADT.
<ul> <li>10.4 Conditions to avoid</li> </ul>	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 hazard classes as defined in Regulation (EC) No 1272/2008

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

· LD/LC	· LD/LC50 values relevant for classification:			
895-85-2 bis(4-methylbenzoyl)peroxide				
Oral	LD50	>2.000 mg/kg (ratt	us)	
Dermal	LD50	>2.000 mg/kg (ratt	us)	
· Skin co	orrosic	on/irritation	Based on available data, the classification criteria are not met.	
· Seriou	s eye d	damage/irritation	Based on available data, the classification criteria are not met.	
· Respir	Respiratory or skin			
sensiti	sation	<b>n</b> Based on available data, the classification criteria are not met.		
· Germ o	cell mu	I mutagenicity Based on available data, the classification criteria are not met.		
· Carcin	Carcinogenicity Based on available data, the classification criteria are not met.			
· Reproc	ductive	ctive toxicity Based on available data, the classification criteria are not met.		
· STOT-9	single	exposure	Based on available data, the classification criteria are not met.	
· STOT-I	repeate	ed exposure	Based on available data, the classification criteria are not met.	
· Aspira	tion ha	azard	Based on available data, the classification criteria are not met.	

Printing date 04.04.2024

· 11.2 Information on other hazards · Endocrine disrupting properties

Version: 6 (replaces version 5)

(Contd. of page 5)

# Trade name: PEROXAN PMB-Paste 50 SI

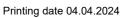
None of the ingredients is listed. **SECTION 12: Ecological information** · 12.1 Toxicity · Aquatic toxicity: 895-85-2 bis(4-methylbenzoyl)peroxide EC50 / 72h 74 mg/l (pseudokirchneriella subcapitata) LC50 / 96h 64 mg/l (oryzias latipes) EC50 / 48h 42 mg/l (daphnia) 12.2 Persistence and degradability · Degree of elimination: · Classification: 895-85-2 bis(4-methylbenzoyl)peroxide Degradation (Readily biodegradable) (OECD 301 D) 12.3 Bioaccumulative potential · Partition coefficient: nOctanol/water: [Log Kow] 895-85-2 bis(4-methylbenzoyl)peroxide 4,7 (20°C) 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 The product does not contain substances with endocrine disrupting properties. 12.7 Other adverse effects · 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 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.

· Uncleaned packaging: · Recommendation:	number. This material and its container must be disposed of as hazardous waste.	
· Waste disposal key:	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)- number.	
13.1 Waste treatment methods Recommendation	After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations.	

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 (Di-(4-methylbenzoyl) peroxide), ENVIRONMENTALLY HAZARDOUS	
·IMDG	ORGANIC PEROXIDE TYPE D, SOLID (Di-(4-methylbenzoyl) peroxide), MARINE POLLUTANT	
	ORGANIC PEROXIDE TYPE D, SOLID (Di-(4-methylbenzoyl) peroxide)	
	(Contd. on page 7	

#### Revision: 14.02.2023

The Peroxide Company



Version: 6 (replaces version 5)

**PERGAN** The Peroxide Company

Revision: 14.02.2023

# Trade name: PEROXAN PMB-Paste 50 SI

	(Contd. of page 6)
· 14.3 Transport hazard class(es)	
· ADR	
· Class · Label	5.2 (P1) Organic peroxides. 5.2
·IMDG	
Class	5.2 Organic peroxides.
· Label	5.2
· Class · Label	5.2 Organic peroxides. 5.2
	5.2
· 14.4 Packing group · ADR	Void
· 14.5 Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> </ul>	Warning: Organic peroxides. -
· 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

### **SECTION 15: Regulatory information**

 $\cdot$  15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- · ·	
<ul> <li>Directive 2012/18/EU</li> <li>Named dangerous substances</li> <li>ANNEX I</li> <li>Seveso category</li> </ul>	None of the ingredients is listed. 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
<ul> <li>Qualifying quantity (tonnes) for the application of upper-tier</li> </ul>	r
requirements • REGULATION (EC) No	200 t
1907/2006 ANNEX XVII	Conditions of restriction: 3
<sup>·</sup> DIRECTIVE 2011/65/EU on the r II	estriction 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 EXPLO	SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	

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Printing date 04.04.2024

Version: 6 (replaces version 5)

**PERGAN** The Peroxide Company

Revision: 14.02.2023

# Trade name: PEROXAN PMB-Paste 50 SI

	(Contd. of page 7)
· Annex II - REPORTABLE EXPI	LOSIVES PRECURSORS
None of the ingredients is listed.	
· Regulation (EC) No 273/2004 (	on drug precursors
None of the ingredients is listed.	
<ul> <li>Regulation (EC) No 111/2005 I precursors</li> </ul>	aying down rules for the monitoring of trade between the Community and third countries in drug
None of the ingredients is listed.	
SECTION 16: Other information	lion
not establish a legally valid contra	present knowledge. However, this shall not constitute a guarantee for any specific product features and shall actual relationship.
· Relevant phrases	H241 Heating may cause a fire or explosion. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
· Contact:	Tel: +49 2871 9902-0 E-mail: mail@pergan.com
· Version number of previous	
version:	5
<ul> <li>Abbreviations and acronyms:</li> </ul>	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 Ist 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 DDS: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Org. Perox. B: Organic peroxides – Type B Org. Perox. B: Organic peroxides – Type C/D 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
* * Data compared to the previous version altered.	