

Version: 9 (replaces version 8)

PERGAN The Peroxide Company

Revision: 11.10.2023

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

· 1.1 Product identifier

PEROXAN PB M-20

 Trade name: 			
1.2 Relevant identified uses of the substance or mixture and uses advised against			
	No further relevant information available.		
 Application of the substance / 			
the mixture	Reaction initiator		
	For industrial use		
· 1.3 Details of the supplier of the	safety data sheet		
Manufacturer/Supplier:	PERGAN GmbH		
	Hilfsstoffe für industrielle Prozesse		
	Schlavenhorst 71		
	D-46395 Bocholt		
	Tel: +49 2871 9902-0		
	Fax: +49 2871 9902-50		
· Further information obtainable			
from:	Environment protection / Security of labour		
	Qualified person: E-mail: msds@pergan.com		
1.4 Emergency telephone			
number:	- Tel: +49 2871 9902-0		

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Flam. Liq. 3 H226 Flammable liquid and vapour.

Org. Perox. C	H242 Heating may cause a fire.		
Acute Tox. 3	H331 Toxic if inhaled.		
Skin Irrit. 2	H315 Causes skin irritation.		
Skin Sens. 1	H317 May cause an allergic skin reaction.		
Aquatic Acute 1	H400 Very toxic to aquatic life.		

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements

· Hazard pictograms

Labelling according to

Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.



	011002 011000	
· Signal word	Danger	
Hazard-determining		
components of labelling:	tert-butyl perbe	enzoate
	pentane-2,4-di	one
Hazard statements	H226 Flammat	ble liquid and vapour.
	H242 Heating r	may cause a fire.
	H331 Toxic if ir	nhaled.
	H315 Causes s	skin irritation.
	H317 May caus	se an allergic skin reaction.
	H410 Very toxi	c 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.
	P243	Take action to prevent static discharges.
	P264	Wash thoroughly after handling.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	P303+P361+P	353 F ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
	P403+P235	Store in a well-ventilated place. Keep cool.
	P410	Protect from sunlight.
	P411	Store at temperatures not exceeding +30°C.
	P420	Store separately.
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazards		
Results of PBT and vPvB ass	essment	
· PBT:	The substance	s in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

· vPvB:

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Determination of endocrine-

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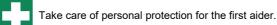
disrupting properties	The product does not contain substances with endocrine disrupting properties.	
SECTION 3: Compositio	n/information on ingredients	
· 3.2 Mixtures · Description:	Mixture: consisting of the following components.	
· Dangerous components:		
CAS: 614-45-9 EINECS: 210-382-2 Reg-No.: 01-2119513317-46	tert-butyl perbenzoate Org. Perox. C, H242; Aquatic Acute 1, H400; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	70-80%
CAS: 123-54-6 EINECS: 204-634-0 Index number: 606-029-00-0 Reg-No.: 01-2119458968-15		10-25%
· 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: Sym

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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



· After inhalation:

- · After skin contact:
- · After eye contact:
- · After swallowing:
- 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.

If symptoms persist consult doctor.

Supply fresh air and to be sure call for a doctor.

Immediately remove contaminated clothing.

Take affected persons into fresh air and keep quiet.

Immediately wash with water and soap and rinse thoroughly.

Rinse opened eye for several minutes under running water.

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: Mouth respiratory protective device. 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.	

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(Contd. of page 2)
Dispose contaminated material as waste according to section 13.
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.
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

SECTION 7. Handling and st	
· 7.1 Precautions for safe	
handling	Keep away from heat and direct sunlight.
	Ensure good ventilation/exhaustion at the workplace.
	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.
	Use only in well ventilated areas.
	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.
	bo 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.
	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, 	
· 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.
	Store under lock and key and with access restricted to technical experts or their assistants only. Storage in a collecting room is required.
. Performended stores	Storage in a conecting room is required.
· Recommended storage	
temperature (To maintain	
quality): Storage class:	0 +30 °C 5.2
Storage class:	5.2 (Contd. on page 4)
	(Contd. on page 4)

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SECTION 8: Exposure controls/personal protection 8:1 Control parameters Ingredients with limit values that require monitoring at the workplace: 1:32-64 pointane-2-4-dione OEL (related) Long-term value: 25 ppm OEL for value: 26 ppm OEL for va	7.3 Specific end use(s)) No further relevant information available. (Contd. of p
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 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
- · Body protection:



Tightly sealed goggles

Protective work clothing

SECTION 9: Physical and chemical properties

 9.1 Information on basic physical and chemical properties General Information 	
· Colour:	Colourless
· Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Not applicable.
Boiling point or initial boiling point and boiling range	Not applicable.
· Flammability	Not applicable.
• Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
Flash point:	48 °C
Decomposition temperature:	+60 °C (SADT)
· pH	Not determined.
Viscosity:	Not dotominod.
· Kinematic viscosity	Not determined.
· Dynamic:	
	Not determined.
Solubility	l lu determine el
water:	Undetermined.
Partition coefficient n-octanol/water (log value)	not determined
Vapour pressure:	Not determined.
Density and/or relative density	
· Density at 20 °C:	1,03 g/cm ³
Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	No further relevant information available.
· Appearance:	
· Form:	Fluid
Important information on protection of health and environme	nt,
and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Risk of explosion by shock, friction, fire or other sources of ignition.
· 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	Flammable liquid and vapour.
· 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 gases in	N/ · · ·
contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
Organic peroxides	Heating may cause a fire.
Corrosive to metals	Void
 Desensitised explosives 	Void
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 Other safety characteristics Active oxygen 	6,34 - 6,59 %	
SECTION 10: Stability and r	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.	
 10.3 Possibility of hazardous 		
reactions	Self-accelerating decomposition at SADT.	
10.4 Conditions to avoid	No further relevant information available.	
 10.5 Incompatible materials: 	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).	
· 10.6 Hazardous decompositior	1	
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 tox	licity		Toxic if inhaled.
· LD/LC50 values relevant for classification:			
614-45-9 t	ert-butyl p	erbenzoate	
Oral	LD50	4.838 mg/kg	(rattus)
Dermal	LD50	3.817 mg/kg	(rattus)
Inhalative	LC100 4h	4,9 mg/l (ratt	us)
	LC0 / 4h	1,01 mg/l (ra	ttus)
123-54-6 p	entane-2,4	4-dione	
Oral	LD50	575 mg/kg (r	attus)
Dermal	LD50	790 mg/kg (r	attus)
Inhalative	LC50 / 4h	5,1 mg/l (ratt	us)
· Skin corr	osion/irrit	ation	Causes skin irritation.
		e/irritation	Based on available data, the classification criteria are not met.
	ory or skin		•• • • • • •
sensitisa			May cause an allergic skin reaction.
	l mutagen	icity	Based on available data, the classification criteria are not met.
· Carcinog			Based on available data, the classification criteria are not met.
	ctive toxic		Based on available data, the classification criteria are not met.
· STOT-sin			Based on available data, the classification criteria are not met.
• •		osure	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			
· Endocrin	e disruptiı	ng properties	3
None of th	e ingredien	nts is listed.	

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:	
123-54-6 pentane-2,4-dione	
LC50 / 96h 72 mg/l (oncorhynchus mykiss)	
EC50 / 48h 75 mg/l (daphnia)	
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12.2 Persistence and degrada	bility	
Degree of elimination: Classification:		
614-45-9 tert-butyl perbenzoat		
Degradation (Readily biodegra	idable) (OECD 301 D)	
123-54-6 pentane-2,4-dione		
Degradation (Readily biodegra	idable) (OECD 301 C)	
12.3 Bioaccumulative potentia	al	
· Partition coefficient: nOctan	ol/water: [Log Kow]	
614-45-9 tert-butyl perbenzoate	9	3 (25°C)
123-54-6 pentane-2,4-dione		0,68 (20°C
12.4 Mobility in soil	No further relevant information available.	I
12.5 Results of PBT and vPvB	3 assessment	
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH	
· 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.	
· Remark:	Very toxic for fish	
 Additional ecological information 	ation:	
· 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.	

SECTION 13: Disposal considerations

 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.
· 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.
 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	UN3103
· 14.2 UN proper shipping name	
ADR	UN3103 ORGANIC PEROXIDE TYPE C, LIQUID (tert-BUTYL PEROXYBENZOATE), ENVIRONMENTALLY HAZARDOUS
·IMDG	ORGANIC PEROXIDE TYPE C, LIQUID (tert-BUTYL PEROXYBENZOATE), MARINE POLLUTANT
	ORGANIC PEROXIDE TYPE C, LIQUID (tert-BUTYL PEROXYBENZOATE)
· 14.3 Transport hazard class(es)	
ADR	
· Class	5.2 (P1) Organic peroxides.
· Label	5.2
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·IMDG	
· 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: tert-BUTYL PEROXYBENZOATE
Marine pollutant:	Yes
· Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user	Warning: Organic peroxides.
Hazard identification number (Kemler code): 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 instr	uments Not applicable.
Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	25 ml
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· Transport category	1
· Tunnel restriction code	D
· RID / GGVSEB:	like ADR
·IMDG	
· Limited quantities (LQ)	25 ml
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 	H2 ACUTE TOXIC
0.1	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
Qualifying quantity (tonnes) for	
the application of upper-tier	
requirements	200 t
· REGULATION (EC) No	
1907/2006 ANNEX XVII	Conditions of restriction: 3
· DIRECTIVE 2011/65/EU on the re	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
II	
None of the ingredients is listed.	
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REGULATION (EU) 2019/1148	(Contd. of page
	OSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
· Annex II - REPORTABLE EXP	LOSIVES PRECURSORS
None of the ingredients is listed.	
· Regulation (EC) No 273/2004	on drug precursors
None of the ingredients is listed.	
	laying down rules for the monitoring of trade between the Community and third countries in drug
None of the ingredients is listed.	
SECTION 16: Other informa	tion
	present knowledge. However, this shall not constitute a guarantee for any specific product features and sha
· Relevant phrases	 H226 Flammable liquid and vapour. H242 Heating may cause a fire. H302 Harmful if swallowed. H311 Toxic in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H331 Toxic if inhaled. H332 Harmful if inhaled. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.
Department issuing SDS: Contact:	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com
Version number of previous	L-mail. man@pergan.com
version:	8
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 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 DB51: Persistent, Bioaccumulative and Toxic VPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Org. Perox. C: Organic peroxides – Type C/D Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corosion/irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 3