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Page 1/9			PERGAN
-	according to	Safety data sheet o Regulation (EC) No 1907/2006, Article 31	The Peroxide Company
Printing date 03.04.2024	-	Version: 15 (replaces version 14)	Revision: 04.03.2024
SECTION 1: Identification of	the substance/n	nixture and of the company/undertaking	
· 1.1 Product identifier			
· Trade name:	PEROXA	N DB	
CAS Number:	110-05-4		
· EC number:	203-733-6		
Index number:	617-001-00-2	_	
 Registration number: 1.2 Relevant identified uses of the second sec			
 Application of the substance / 			
the mixture	Reaction initiator For industrial use		
 1.3 Details of the supplier of the Manufacturer/Supplier: 	safety data sheet PERGAN GmbH Hilfsstoffe für indu Schlavenhorst 71 D-46395 Bocholt Tel: +49 2871 990 Fax: +49 2871 990	2-0	
• Further information obtainable			
from: · 1.4 Emergency telephone number:	- Tel: +49 2871 99	E-mail: msds@pergan.com /02-0	
2.1 Classification of the substan Classification according to Reg Flam. Liq. 2 H225 Highly flag			
		vapour.	
•	may cause a fire.	in defende	
	ed of causing genet		
Aquatic Chronic 3 H412 Harmful			
2.2 Label elements			
 Labelling according to Regulation (EC) No 1272/2008 	The substance is	classified and labelled according to the CLP regulation	
· Hazard pictograms			
	GHS02 GHS08		
· Signal word	Danger		
· Hazard-determining			
components of labelling:	di-tert-butyl peroxi		
· Hazard statements	H225 Highly flamn H242 Heating may	nable liquid and vapour.	
	H341 Suspected c	of causing genetic defects.	
	H412 Harmful to a	iquatic life with long lasting effects.	
 Precautionary statements 	P210	Keep away from heat, hot surfaces, sparks, open flan smoking.	nes and other ignition sources. No
	P220	Keep away from dirt, rust, chemicals in particular con accelerators (e. g. heavy metal compounds and amin	
	P234	Keep only in original packaging.	
	P243	Take action to prevent static discharges.	
	P273 P280	Avoid release to the environment. Wear protective gloves/protective clothing/eye protective	tion/face protection
		B IF ON SKIN (or hair): Take off immediately all contarr water.	
	P410	Protect from sunlight.	
	P411+P235	Store at temperatures not exceeding +40°C. Keep co Store separately.	01.
	P420 P501	Dispose of contents/container in accordance with loca	al/regional/national/international
· Additional information:	Contains tout but	regulations.	
· Additional information:	Contains tert-butyl	hydroperoxide. May produce an allergic reaction.	
• Results of PBT and vPvB asses	sment		
· PBT:	This substance do	es not meet the PBT/vPvB criteria of REACH, Annex >	
· vPvB:	This substance do	es not meet the PBT/vPvB criteria of REACH, Annex X	XIII.

· vPvB: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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Determination of endocrine- disrupting properties			
*	SECTION 3: Compositio	n/information on ingredients	
	• 3.1 Substances • CAS No. Description • Identification number(s) • EC number: • Index number:	110-05-4 di-tert-butyl peroxide 203-733-6 617-001-00-2	
Γ	· Dangerous components:		
	CAS: 75-91-2 EINECS: 200-915-7 Reg-No.: 01-2119446670-40	tert-butyl hydroperoxide Flam. Liq. 3, H226; Org. Perox. F, H242; Acute Tox. 3, H311; Acute Tox. 2, H330; Muta. 2, H341; Carc. 2, H351; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limits: Eye Dam. 1; H318: C ≥ 1 % Skin Sens. 1; H317: C ≥ 0,1 % STOT SE 3; H335: C ≥ 5 %	≤0,1%

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information:
- · 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



Take care of personal protection for the first aider.

Take affected persons into fresh air and keep quiet. Immediately remove contaminated clothing. Rinse opened eye for several minutes under running water. If symptoms persist consult doctor.

No further relevant information available.

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: For safety reasons unsuitable extinguishing agents:
- 5.2 Special hazards arising from the substance or mixture

5.3 Advice for firefighters
 Protective equipment:
 Additional information

 6.3 Methods and material for containment and cleaning up:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Water with full jet

Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.

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.

Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Safety data sheet according to Regulation (EC) No 1907/2006, Article 31 Version: 15 (replaces version 14)

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	(Contd. of page 2) 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

• 7.1 Precautions for safe	
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.
	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.
	(4) Do not smoke.
Information about fire - and	
explosion protection:	Protect from heat.
expression protoction	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.
	Ausid and former former and the direct contribute and other sources of invition
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
	Kaon ignition equipped quark. Do not ample
	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 in a cool location.
storerooms and receptacies.	
	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.
	Store in cool, dry conditions in well sealed receptacles.
	Protect from heat and direct sunlight.
	Protect from contamination.
. Decommended stars	
Recommended storage	
temperature (To maintain	
quality):	max.: +40 °C
 Storage class: 	5.2
 7.3 Specific end use(s) 	No further relevant information available.
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SECTION	SECTION 8: Exposure controls/personal protection				
 Ingredien 	• 8.1 Control parameters • Ingredients with limit values that require monitoring at the				
workplac			Not required.		
· DNELs	.		Not required.		
	li tort butul p	orovido			
	li-tert-butyl p		3 mg/kg bw/day (Worker)		
	-	•	20 mg/m3 (Worker)		
	rt-butyl hydro	•			
		•	0,21 mg/kg bw/day (Worker)		
	DNEL Acute		85,2 mg/m3 (Worker)		
	DNEL Acute		28,4 mg/m3 (Worker)		
			2,2 mg/m3 (Worker)		
	DNEL Longte		0,58 mg/m3 (Worker)		
·PNECs		· · ·			
	li-tert-butyl p				
	inewater sed				
PNEC Free		0,144 mg/l			
	shwater sed	15 mg/kg s			
PNEC Soil		2,94 mg/kg			
PNEC STR		10 mg/l (Al	,		
PNEC Mar		0,014 mg/l	(AF 500)		
	rt-butyl hydro		en er di der		
	inewater sed				
PNEC Free			(AF 1.000)		
PNEC Sea		0 mg/l (AF			
	shwater sed	-	kg sed dw (-)		
PNEC Soil		-	kg soil dw (AF 1.000)		
PNEC STR	al informatio	0,17 mg/l (AF 100) The lists valid during the making were used as basis.		
8.2 Expos Appropria controls Individua General	ure controls ate engineeri I protection i protective ar	ng measures, s id	No further data; see section 7. such as personal protective equipment		
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. 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.		
[.] Respirat	 Respiratory protection: 		Not necessary if room is well-ventilated. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.		
[.] Hand protection			Filter A2 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 the degradation		
· Materia	l of gloves		Protective 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		
· Penetra	tion time of g				
materia			The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be		
			observed. (Contd. on page 5)		

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· Eye/face protection		(Contd. of page
Tightly sealed goggl	25	
Body protection: Protective work cloth	ing	
SECTION 9: Physical and chemical properties		
9.1 Information on basic physical and chemical properties General Information		
Physical state	Fluid	
· 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	May cause fire.	
-	Highly flammable.	
 Lower and upper explosion limit 		
· Lower:	0,74 Vol %	
· Upper:	Not determined.	
· Flash point:	< 6 °C	
Decomposition temperature:	+80 °C (SADT)	
· pH	Not determined.	
Viscosity:		
Kinematic viscosity	Not determined.	
· Dynamic at 20 °C:	1 mPas	
· Solubility · water:	Undetermined.	
· Partition coefficient n-octanol/water (log value)	not determined.	
Partition coefficient n-octation/water (log value)	Not determined.	
· Vapour pressure at 20 °C:	24 hPa	
Density and/or relative density		
· Density at 20 °C:	0,8 g/cm ³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
9.2 Other information		
Appearance:		
· Form:	Fluid	
Important information on protection of health and environm		
and on safety.		

Ignition temperature: · Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible. · Change in condition Not determined. · Evaporation rate · Information with regard to physical hazard classes · Explosives Void Flammable gases Void · Aerosols Void · Oxidising gases Void Gases under pressure Void Flammable liquids Highly 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 contact with water Void · Oxidising liquids Void **Oxidising solids** Void · Organic peroxides Heating may cause a fire. · Corrosive to metals Void · Desensitised explosives Void

Not determined.

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• Other safety characteristics • Active oxygen	> 10,7 %	
SECTION 10: Stability and re	eactivity	
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 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

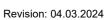
• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 • Acute toxicity Based on available data, the classification criteria are not met

· Acute to	te toxicity Based on available data, the classification criteria are not met.			
· LD/LC50	· LD/LC50 values relevant for classification:			
110-05-4 c	0-05-4 di-tert-butyl peroxide			
Oral	LD50	>25.000 mg/	/kg (rattus)	
Dermal	LD50	>19.000 mg/	/kg (mouse)	
Inhalative	LC50 / 4h	>24,5 mg/l (r	rattus)	
75-91-2 te	rt-butyl hy	droperoxide		
Oral	LD50	805 mg/kg /((70%) (rattus)	
Dermal	LD50	633 mg/kg /((70%) (rabbit)	
Inhalative	LC50 / 4h	1,2 mg/l /(70)%) (rattus)	
· Skin cori	osion/irrit	ation	Based on available data, the classification criteria are not met.	
	• Serious eye damage/irritation Based on available data, the classification criteria are not met.			
•	ory or skin	l		
	itisation Based on available data, the classification criteria are not met.			
	cell mutagenicity Suspected of causing genetic defects.			
-	nogenicity Based on available data, the classification criteria are not met.			
 Reprodu 	ctive toxic	tive toxicity Based on available data, the classification criteria are not met.		
· STOT-sir	STOT-single exposure Based on available data, the classification criteria are not met.			
· STOT-rep	STOT-repeated exposure Based on available data, the classification criteria are not met.			
 Aspiratio 	Aspiration hazard Based on available data, the classification criteria are not met.			
11.2 Information on other hazards				
· Endocrin	· Endocrine disrupting properties			
None of th	None of the ingredients is listed.			

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic to	· Aquatic toxicity:		
75-91-2 ter	75-91-2 tert-butyl hydroperoxide		
EC50 / 72h	2,1 mg/l /(70%) (selenastrum capricornutum)		
LC50 / 96h	42,3 mg/l /(70%) (pimephales promelas)		
EC50	24,3 mg/l /(70%) (activa sludge)		





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EC50 / 48h 20 mg/l /(70%) (daphi	,	
 12.2 Persistence and degradabil Degree of elimination: 	ity	
· Classification:		
110-05-4 di-tert-butyl peroxide		
Degradation (Not readily biodegra	adable) (OECD 301 D)	
75-91-2 tert-butyl hydroperoxide		
Degradation (Not readily biodegra	adable) (OECD 301 D)	
12.3 Bioaccumulative potential		
· Partition coefficient: nOctanol	/water: [Log Kow]	
110-05-4 di-tert-butyl peroxide		3,2 (22°C)
75-65-0 2-methylpropan-2-ol		0,32 (20°C)
75-91-2 tert-butyl hydroperoxide		0,85 (30 °C)
12.4 Mobility in soil	No further relevant information available.	
 12.5 Results of PBT and vPvB as 	ssessment	
· PBT:	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
· vPvB:	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
 12.6 Endocrine disrupting 		
properties	The product does not contain substances with endocrine disrupting properties.	
12.7 Other adverse effects		
Remark: Harmful to fish		
Additional ecological information		
· General notes:	Harmful to aquatic organisms Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for v Do not allow undiluted product or large quantities of it to reach ground water, water cours 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.

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)-

· Waste disposal key:

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	UN3107
· 14.2 UN proper shipping name · ADR	UN3107 ORGANIC PEROXIDE TYPE E, LIQUID (DI-tert-BUTYL PEROXIDE)
· IMDG, IATA	ORGANIC PEROXIDE TYPE E, LIQUID (DI-tert-BUTYL PEROXIDE)
· 14.3 Transport hazard class(es)	
· ADR	
Class	5.2 (P1) Organic peroxides.
· Label	5.2
· IMDG, IATA	
· Class	5.2 Organic peroxides.
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·Label	5.2	
14.4 Packing group ADR, IMDG, IATA	Void	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for use · Hazard identification number (· Stowage Category · Stowage Code · Segregation Code		
14.7 Maritime transport in bulk	according to IMO instruments Not applicable.	
Transport/Additional information	in:	
ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code	125 ml Code: E0 Not permitted as Excepted Quantity 2 D	
· RID / GGVSEB:	like ADR	
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	125 ml Code: E0 Not permitted as Excepted Quantity	
SECTION 15: Regulatory info	ormation	
 15.1 Safety, health and environr Directive 2012/18/EU Named dangerous substances ANNEX I Seveso category Qualifying quantity (tonnes) fo the application of lower-tier requirements Qualifying quantity (tonnes) fo the application of upper-tier 	Substance is not listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES r 50 t	
15.1 Safety, health and environm Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) fo the application of lower-tier requirements Qualifying quantity (tonnes) fo the application of upper-tier requirements REGULATION (EC) No	Substance is not listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES r 50 t	
15.1 Safety, health and environm Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 ANNEX XVII	Substance is not listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES of t 200 t	– Ann
15.1 Safety, health and environm Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 ANNEX XVII DIRECTIVE 2011/65/EU on the p	Substance is not listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES of t 200 t Conditions of restriction: 3	– Anne

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.

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· Contact:	Tel: +49 2871 9902-0	
	E-mail: mail@pergan.com	
Version number of previous		
version:	14	
* Data compared to the	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the Internation 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 DS1: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Org. Perox. E: Organic peroxides – Type E/F Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 1 Skin Corr. 1C: Skin corrosion/irritation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	mal
previous version altered.		