- .

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



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

· 1.1 Product identifier

PEROXAN BILM2

· Trade name:	
1.2 Relevant identified uses of	the substance or mixture and uses advised again No further relevant information available.
· Application of the substance /	
the mixture	Reaction initiator
	For industrial use
1.3 Details of the supplier of th	e 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	e
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 identif	fication

SECTION 2: Hazards identified	cation
Org. Perox. EH242 HeatingSkin Irrit. 2H315 CausesSkin Sens. 1H317 May cauAsp. Tox. 1H304 May be	ulation (EC) No 1272/2008 ble liquid and vapour. may cause a fire.
 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.
· Signal word	Danger
 Signal word Hazard-determining components of labelling: Hazard statements Precautionary statements 	 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide tert-butyl alpha, alpha-dimethylbenzyl peroxide H226 Flammable liquid and vapour. H242 Heating may cause a fire. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H304 May be fatal if swallowed and enters airways. H411 Toxic to aquatic life with long lasting effects. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines). 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.
	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P405 Store locked up. 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.

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	(Contd. of page 1)
 2.3 Other hazards Results of PBT and vPvB asses 	ssment
· 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

Dangerous components:		
CAS: 3457-61-2 EINECS: 222-389-8 Index number: 617-007-00-5 Reg-No.: 01-2119969063-35	tert-butyl alpha,alpha-dimethylbenzyl peroxide Org. Perox. E, H242; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	40-50%
CAS: 6731-36-8 EINECS: 229-782-3 Reg-No.: 01-2119735694-30	di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide Org. Perox. B, H241	20-25%
CAS: 93685-81-5 EINECS: 297-629-8 Reg-No.: 01-2119490725-29	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Alternative CAS number: 13475-82-6 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	20-25%
CAS: 98-83-9 EINECS: 202-705-0 Index number: 601-027-00-6	2-phenylpropene Flam. Liq. 3, H226; Aquatic Chronic 2, H411; Eye Irrit. 2, H319; STOT SE 3, H335	0,1-2,5%
CAS: 98-86-2 EINECS: 202-708-7 Index number: 606-042-00-1	acetophenone Acute Tox. 4, H302; Eye Irrit. 2, H319	0,1-2,5%
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%
CAS: 80-43-3 EINECS: 201-279-3 Index number: 617-006-00-X Reg-No.: 01-2119541688-27	bis(a,a-dimethylbenzyl) peroxide Org. Perox. F, H242; Repr. 1B, H360D; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	0-1%
· 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: 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. · 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: 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.



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	(Contd. of pag
5.0 Ashring for fireficities	Hydrocarbons, carbondioxide and -monoxid.
5.3 Advice for firefighters	
Protective equipment: Additional information	Do not inhale explosion gases or combustion gases.
	Cool endangered receptacles with water spray. Self-protection first!
SECTION 6: Accidental relea	se 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.
	Do not allow to enter sewers/ surface of ground water.
6.3 Methods and material for	
containment and cleaning up:	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 % befor
	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. Restric 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 to smoke. Do not generate flames or sparks. Keep product and emptied container away from heat and sources of ignition. Avoid shock and friction. Tar precautionary measures against static discharges. Protect from heat. Protect from heat. Protect from heat. Protect from heat. Protect spainst electrostatic charges. Prevent impact and friction. Use subsion-proof apparatus / fittings and spark-proof tools. Furence anombine with air to form an explosive mixture. Www Ware shoes with conductive soles. Protect of flammable or explosive gas/air-mixtures is possible. Ware sole of flammable or explosive gas/air-mixtures is possible.
	Keep ignition sources away - Do not smoke.
 7.2 Conditions for safe storage, Storage: 	including any incompatibilities Pay attention to the special requirements of your local autorithies for storing dangerous goods.

Requirements to be met by storerooms and receptacles:

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Store only in the original receptacle.

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		(Contd. of page 3)
	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	Store away norn roousturis, uninks and recurry sturis.	
storage conditions:	Protect from heat and direct sunlight.	
	Protect from contamination.	
	Storage in a collecting room is required.	
 Recommended storage 		
temperature (To maintain		
quality):	+5 +30 °C	
 Storage class: 	5.2	
7.3 Specific end use(s)	No further relevant information available.	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters · Ingredients with limit values that require monitoring at the workplace: 98-83-9 2-phenylpropene Short-term value: 492 mg/m3, 100 ppm IOELV (EU) Long-term value: 246 mg/m³, 50 ppm WEL (Great Britain) Short-term value: 491 mg/m³, 100 ppm Long-term value: 246 mg/m³, 50 ppm · DNELs 6731-36-8 di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide Dermal DNEL Longterm System 2 mg/kg bw/day (Worker) Inhalative DNEL Longterm System 1,4 mg/m3 (Worker) 98-86-2 acetophenone Dermal DNEL Longterm System 0,35 mg/kg bw/day (Worker) Inhalative DNEL Longterm System 1,23 mg/m3 (Worker) 75-91-2 tert-butyl hydroperoxide Dermal DNEL Longterm System 0,21 mg/kg bw/day (Worker) Inhalative DNEL Acute Systemic 85,2 mg/m3 (Worker) **DNEL** Acute Local 28,4 mg/m3 (Worker) DNEL Longterm System 2,2 mg/m3 (Worker) DNEL Longterm Local 0,58 mg/m3 (Worker) 80-43-3 bis(a,a-dimethylbenzyl) peroxide Oral DNEL Longterm System 0,4 mg/kg bw/day (General population) Dermal DNEL Longterm System 0,8 mg/kg bw/day (Worker) 0,4 mg/kg bw/day (General population) Inhalative DNEL Longterm System 5,6 mg/m3 (Worker) 1,4 mg/m3 (General population) · PNECs 6731-36-8 di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide PNEC Marinewater sed 0,01 mg/kg sed dw (AF 500) PNEC Freshwater sed 0,102 mg/kg sed dw (AF 50) PNEC Soil 5,29 mg/kg soil dw (AF 10) PNEC STP 100 mg/l (AF 10) 98-86-2 acetophenone PNEC Marinewater sed 0,113 mg/kg sed dw (-) 0,086 mg/l (AF 1.000) **PNEC** Freshwater PNEC Freshwater sed 1,13 mg/kg sed dw (-) PNEC Soil 0,175 mg/kg soil dw (-) PNEC STP 34,6 mg/l (AF 10) **PNEC Marinewater** 0,009 mg/l (AF 10.000) 75-91-2 tert-butyl hydroperoxide PNEC Marinewater sed 0,001 mg/kg sed dw **PNEC** Freshwater 0,002 mg/l (AF 1.000) (Contd. on page 5)

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PNEC Seawater	(Contd. of page	
PNEC Seawater sed	0 mg/l (AF 10.000)	
PNEC Soil PNEC STP	0,166 mg/kg soil dw (AF 1.000)	
	0,17 mg/l (AF 100)	
80-43-3 bis(a,a-dimeth		
PNEC Freshwater	0,00234 mg/l (AF 50)	
PNEC Freshwater sed		
PNEC Soil	0,447 mg/kg soil dw (-)	
PNEC STP	100 mg/l (AF 10)	
· Additional information	on: The lists valid during the making were used as basis.	
	ing No further data; see section 7. measures, such as personal protective equipment	
 General protective an 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.	
· Respiratory protectio	Be sure to clean skin thoroughly after work and before breaks.	
	Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated. Filter A2	
· Hand protection	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 quality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR	
· Penetration time of material	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to l	
· Eye/face protection	observed. Tightly sealed goggles	
· Body protection:	Protective work clothing	

Colour:	Yellowish	
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:	60 °C	
Decomposition temperature:	≥ 55 (SADT) °C	
		(Contd. on page

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· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	10 mPas
· Solubility	
· water:	Undetermined.
 Partition coefficient n-octanol/water (log value) 	not determined
· Vapour pressure:	Not determined.
Density and/or relative density	
· Density at 20 °C:	0,875 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
• 9.2 Other information	
· Appearance:	
· Form:	Fluid
 Important information on protection of health and environme and on safety. 	ent,
· Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour
	mixtures are possible.
· Solvent content:	
· VOC (EC)	207,2 g/l
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	
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	

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.
 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.





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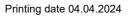
	(Contd. of page 6)
· Additional information:	Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

SECTION 11: Toxicological information

• 11.1 Infor • Acute to		hazard class	ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.	
· LD/LC50	values re	levant for cla	assification:	
3457-61-2	tert-butyl	alpha,alpha-	dimethylbenzyl peroxide	
Oral	LD50	4.700 mg/kg (rattus)		
Dermal	LD50	>2.000 mg/kg (rattus)		
Inhalative	LC50	>1,2 mg/l (rattus)		
6731-36-8	di-tert-but	tyl 3,3,5-trime	ethylcyclohexylidene diperoxide	
Oral	LD50	>2.000 mg/k	g (rattus)	
Dermal	LD50	>2.000 mg/k	>2.000 mg/kg (rattus)	
93685-81-	5 Hydroca	rbons, C4, 1,	3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	
Oral	LD50	>5.000 mg/k	g (rattus)	
98-83-9 2-	phenylpro	pene		
Oral	LD50	4.900 mg/kg (rattus)		
98-86-2 acetophenone				
Oral	LD50			
75-91-2 te	rt-butyl hy	droperoxide		
Oral	LD50 805 mg/kg /((70%) (rattus)	
Dermal	LD50	633 mg/kg /(633 mg/kg /(70%) (rabbit)	
Inhalative LC50 / 4h 1,2 mg/l /(70%) (rattus)		%) (rattus)		
80-43-3 bi	s(a,a-dime	ethylbenzyl) p	peroxide	
Oral	LD50	>2.000 mg/k	g (rattus)	
Dermal	LD50	>2.000 mg/k	ig (rattus)	
· Skin corr	osion/irrit	ation	Causes skin irritation.	
			Based on available data, the classification criteria are not met.	
Respirate		1	Management of the state of the	
	sensitisation · Germ cell mutagenicity		May cause an allergic skin reaction.	
		icity	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.	
	 Carcinogenicity 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.	
Aspiratio			May be fatal if swallowed and enters airways.	
		other hazard		
	-	ng properties	S	
None of the ingredients is listed.				

SECTION 12: Ecological information

· 12.1 Toxici	ty
 Aquatic to 	xicity:
93685-81-5	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated
EC50 / 48h	>0,04 mg/l (daphnia)
IC50 / 72h	>0,04 mg/l (algae)
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)
EC50 / 48h	20 mg/l /(70%) (daphnia)
80-43-3 bis	(a,a-dimethylbenzyl) peroxide
EC50 / 72h	>20 mg/l (algae)
EC50	>1.000 mg/l (activa sludge)
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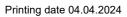
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12.2 Persistence and degrada	ıbility	(Contd. of page
Degree of elimination: Classification:		
	he discate de constructure	
3457-61-2 tert-butyl alpha,alpl		
Degradation (Not readily biode	•	
- · · ·	imethylcyclohexylidene diperoxide	
0	erent biodegradability.) (OECD 301 D)	
	, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	
Degradation (Not readily biode	gradable)	
98-86-2 acetophenone		
Degradation (Readily biodegra		
75-91-2 tert-butyl hydroperoxi		
Degradation (Not readily biode		
80-43-3 bis(a,a-dimethylbenzy		
Degradation (Not readily biode	gradable) (OECD 301 F)	
12.3 Bioaccumulative potentia	al	
· Partition coefficient: nOctan	iol/water: [Log Kow]	
3457-61-2 tert-butyl alpha,alph	a-dimethylbenzyl peroxide	4,4 (25°C)
98-86-2 acetophenone		1,65 (20°C)
75-91-2 tert-butyl hydroperox	xide	0,85 (30 °C
80-43-3 bis(a,a-dimethylben	zyl) peroxide	5,6 (25°C)
· Bioconcentration factor (BCI	F)	
80-43-3 bis(a,a-dimethylbenzy	/l) peroxide	
BCF 747		
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvE	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	l, annex XIII.
12.6 Endocrine disrupting	-	
properties 12.7 Other adverse effects	The product does not contain substances with endocrine disrupting properties.	
· 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.	

· 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.

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3107	
		(Contd. on page 9) MT —



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	(Contd. of page
· 14.2 UN proper shipping name · ADR	UN3107 ORGANIC PEROXIDE TYPE E, LIQUID (1,1-DI-(tert-
·IMDG	BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE, tert-BUTYL CUMYL PEROXIDE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE E, LIQUID (1,1-DI-(tert-BUTYLPEROXY)- 3,3,5-TRIMETHYLCYCLOHEXANE, tert-BUTYL CUMYL PEROXIDE),
	MARINE POLLUTANT ORGANIC PEROXIDE TYPE E, LIQUID (1,1-DI-(tert-BUTYLPEROXY)- 3,3,5-TRIMETHYLCYCLOHEXANE, tert-BUTYL CUMYL PEROXIDE)
· 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
· 14.4 Packing group · ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Product contains environmentally hazardous substances: tert-BUTYL CUMYL PEROXIDE
 Marine pollutant: 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): EMS Number: 	- F-J,S-R
· Stowage Category	D
· Stowage Code · Segregation Code	SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids
	SG36 Stow "separated from" SGG18-alkalis. SG72 See 7.2.6.3.2.
· 14.7 Maritime transport in bulk according to IMO instr	
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	125 ml Code: E0
Transport category	Not permitted as Excepted Quantity 2
Tunnel restriction code	Z D
· RID / GGVSEB:	like ADR
· IMDG	
 Limited quantities (LQ) Excepted quantities (EQ) 	125 ml Code: E0

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SECTION 15: Regulatory info	ormation	
\cdot 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture		
 Directive 2012/18/EU Named dangerous substances ANNEX I Seveso category 	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES E2 Hazardous to the Aquatic Environment	
 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 	50 t	
· DIRECTIVE 2011/65/EU on the r	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex	
None of the ingredients is listed.		
· REGULATION (EU) 2019/1148		
	SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))	
None of the ingredients is listed.		
· Annex II - REPORTABLE EXPL	OSIVES PRECURSORS	
None of the ingredients is listed.		
· Regulation (EC) No 273/2004 or	n drug precursors	
None of the ingredients is listed.		
 Regulation (EC) No 111/2005 la precursors 	ying 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

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.

 Department issuing SDS: Contact: Version number of previous 	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com
•	12
version: • Abbreviations and acronyms:	13 RD: 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 Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods 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) VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH) PMEC: Prediced No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent ED50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic VP:B: very Persistent and very Bioaccumulative Fiam. Lig, 3: Fiammable liguids – Category 3 Org. Perox. B: Organic peroxides – Type E/F Org. Perox. B: Organic peroxides – Type E/F Org. Perox. B: Organic peroxides – Type E/F Org. Perox. A: Acute toxicity – Category 1 Acute Tox. 3: Acute toxicity – Category 2 Skin Corr. 10: Skin corrosion/Irritation – Category 1 Skin Sens. 11: Skin sensitisation – Category 2 Skin Corr. 11: Skin sensitisation – Category 1 Skin Sens. 11: Skin sensitisation – Category 1 Skin Sens. 11: Skin sensitisation – Category 2 Skin Sens. 11: Skin sensitisation – Cate
	Asp. Tox. 1: Aspiration hazard – Category 1 (Contd. on page 11)
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Printing date 04.04.2024

Version: 14 (replaces version 13)

PERGAN The Peroxide Company

Revision: 14.12.2023

Trade name: PEROXAN BU M2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4 (Contd. of page 10)

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 * Data compared to the previous version altered.