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

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· 1.1 Product identifier
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PEROXAN MI-60 KPX

· 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 Manufacturer/Supplier: 	safety data sheet 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: 1.4 Emergency telephone number: 	Qualified person: E-mail: msds@pergan.com - Tel: +49 2871 9902-0

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification acc	ording	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 Corr. 1C	H314	Causes severe skin burns and eye damage.
Eye Dam. 1	H318	Causes serious eye damage.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Carc. 2	H351	Suspected of causing cancer.
Repr. 2	H361d	Suspected of damaging the unborn child.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.
· 2.2 Label elements · Labelling accordi	-	

Labelling according to Regulation (EC) No 1272/2008

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

£.) GHS02 GHS05 GHS06 GHS08 GHS09

· Signal word

Danger

· Hazard-determining		
components of labelling:	Reaction mass	of 4-methylpentane-2,2-diyl dihydroperoxide and 4-methylpentane-2-one and peroxybis-4-
	methylpentane-	2,2-diyl dihydroperoxide
	1-isopropyl-2,2-	dimethyltrimethylene diisobutyrate
	4-methylpentan	-2-one
	tert-butyl perber	nzoate
• Hazard statements	H226 Flamma	ble liquid and vapour.
	H242 Heating	may cause a fire.
	H331 Toxic if i	nhaled.
	H314 Causes	severe skin burns and eye damage.
	H317 May cau	se an allergic skin reaction.
	H351 Suspect	ed of causing cancer.
	H361d Suspect	ed of damaging the unborn child.
	H304 May be	atal if swallowed and enters airways.
	H410 Very tox	ic to aquatic life with long lasting effects.
• Precautionary statements	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	D 000	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.
		(Contd. on page 2)

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		(Contd. of page
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
		IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P405	Store locked up.
	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		5
· 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 mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
· Determination of endocrine-		
disrupting properties	The product doos	not contain substances with endocrine disrupting properties.
disturbing properties	The product does i	nor contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures		
 Dangerous components: 		
EC number: 942-932-9 Reg-No.: 01-2120103792-63	Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide and 4-methylpentane-2-one and peroxybis-4-methylpentane-2,2-diyl dihydroperoxide Alternative CAS number: 37206-20-5 Flam. Liq. 3, H226; Org. Perox. D, H242; Asp. Tox. 1, H304; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317	25-40%
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	25-30%
CAS: 6846-50-0 EINECS: 229-934-9 Reg-No.: 01-2119451093-47	1-isopropyl-2,2-dimethyltrimethylene diisobutyrate Repr. 2, H361d; Aquatic Chronic 3, H412	10-25%
CAS: 108-10-1 EINECS: 203-550-1 Index number: 606-004-00-4 Reg-No.: 01-2119473980-30	4-methylpentan-2-one Flam. Liq. 2, H225; Carc. 2, H351; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066 ATE: LC50 / 4h inhalative: 11 mg/l	5-10%
CAS: 123-42-2 EINECS: 204-626-7 Index number: 603-016-00-1 Reg-No.: 01-2119473975-21	4-hydroxy-4-methylpentan-2-one Flam. Liq. 3, H226; Repr. 2, H361d; Eye Irrit. 2, H319; STOT SE 3, H335 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 10 %	5-10%
CAS: 7722-84-1 EINECS: 231-765-0 Index number: 008-003-00-9 Reg-No.: 01-2119485845-22	hydrogen peroxide solution Ox. Liq. 1, H271; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 70 % Skin Corr. 1B; H314: 50 % ≤ C < 70 %	0,1-2,5%
CAS: 102-82-9 EINECS: 203-058-7 Reg-No.: 01-2119474898-14	tributylamine Acute Tox. 3, H311; Acute Tox. 1, H330; Acute Tox. 4, H302; Skin Irrit. 2, H315	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:

Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.



Take care of personal protection for the first aider.

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 After inhalation: 	Supply fresh air and to be sure call for a doctor.	
	In case of unconsciousness place patient stably in side position for transportation.	
After alsin as the st	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 ave contact		
· After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.	
 After swallowing: 	Call for a doctor immediately.	
 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

	5.1 Exiliguisiling meula	
	· 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	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:	Dispose contaminated material as waste according to section 13.
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.
	ni odob or largo opiliago nio orvitorimontal admonty offolia be informed.

SECTION 7: Handling and storage

· 7.1 Precautions for safe	
handling	Keep away from heat and direct sunlight.
C C	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.
	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). Avoid contact with skin and eyes.
	While using do not eat, drink or smoke.
	While using do not eat, dhirk of smoke.

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	(Contd. of page
	Avoid shock and friction.
	Do not smoke.
Information about fire - and	$\mathbf{\bullet}$
explosion protection:	Protect from heat.
	Prevent impact and friction.
	Fumes can combine with air to form an explosive mixture.
	Wear shoes with conductive soles.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
7.2 Conditions for safe storage,	including any incompatibilities
· Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
· Requirements to be met by	
storerooms and receptacles:	Store only in the original receptacle.
	Prevent any seepage into the ground.
	Use only receptacles specifically permitted for this substance/product.
Information about storage in	
one common storage facility:	Do not store or park organic peroxide together with heavy metal compounds and amines.
	Store away from foodstuffs, drinks and feeding stuffs.
• Further information about	
storage conditions:	Keep container tightly sealed.
C C	Protect from heat and direct sunlight.
	Protect from contamination.
	Store under lock and key and out of the reach of children.
	Storage in a collecting room is required.
Recommended storage	
temperature (To maintain	
quality):	+5 +25 ℃
· Storage class:	5.2
3	No further relevant information available.

SECTION 8: Exposure controls/personal protection

 Ingredients 	s with limit values that	t require monitoring at the workplace:
108-10-1 4-	methylpentan-2-one	
IOELV (EU)		ue: 208 mg/m³, 50 ppm Je: 83 mg/m³, 20 ppm
WEL (Great		ue: 416 mg/m³, 100 ppm ue: 208 mg/m³, 50 ppm
123-42-2 4-1	hydroxy-4-methylpenta	an-2-one
WEL (Great		ue: 362 mg/m³, 75 ppm ue: 241 mg/m³, 50 ppm
7722-84-1 h	ydrogen peroxide sol	ution
WEL (Great	Britain) Short-term val Long-term val	ue: 2,8 mg/m³, 2 ppm Je: 1,4 mg/m³, 1 ppm
·DNELs		
Reaction m dihydroper		e-2,2-diyl dihydroperoxide and 4-methylpentane-2-one and peroxybis-4-methylpentane-2,2-diyl
Dermal D	NEL Longterm System	1,5 mg/kg bw/day (Worker)
Inhalative C	NEL Longterm System	2,64 mg/m3 (Worker)
614-45-9 tei	rt-butyl perbenzoate	
Dermal D	NEL Longterm System	17,5 mg/kg bw/day (Worker)
Inhalative C	NEL Longterm System	24,7 mg/m3 (Worker)
6846-50-0 1	-isopropyl-2,2-dimethy	/Itrimethylene diisobutyrate
Dermal D	NEL Longterm System	5 mg/kg bw/day (Worker)
Inhalative D	NEL Longterm System	17,62 mg/m3 (Worker)
108-10-1 4-1	methylpentan-2-one	
		11.8 mg/kg bw/day (Worker)

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			(Contd. of pag
	DNEL Acute	-	208 mg/m3 (Worker)
	0		83 mg/m3 (Worker)
	-hydroxy-4-m	•••	
	-	•	467 mg/kg bw/day (Worker)
	-	-	32,6 mg/m3 (Worker)
	hydrogen pe		
	DNEL Longte		1,4 mg/m3 (Worker)
	ributylamine		
	DNEL Acute	•	10,6 mg/m3 (Worker)
	-	-	5,3 mg/m3 (Worker)
	DNEL Longte	erm Local	15,2 mg/m3 (Worker)
· PNECs			
dihydrope	roxide		e-2,2-diyl dihydroperoxide and 4-methylpentane-2-one and peroxybis-4-methylpentane-2,2-diyl
PNEC Mari	inewater sed		
PNEC Fres			g/I (AF 1.000)
PNEC Fres	shwater sed	0,59 mg/kg	
PNEC Soil		-	g soil dw (-)
PNEC STP)	1,28 mg/l (/	•
PNEC Mari			ng/l (AF 10.000)
	ert-butyl perk		
PNEC Mari	inewater sed	0,028 mg/k	g sed dw
PNEC Fres	shwater	0,01 mg/l (/	AF 10)
PNEC Fres	shwater sed	0,28 mg/kg	
PNEC Soil		0,049 mg/k	g soil dw
PNEC STP)	0,6 mg/l (AF 10)	
PNEC Mari	inewater	0,00101 mg/l (AF 100)	
		-	/trimethylene diisobutyrate
PNEC Mari	inewater sed	-	
PNEC Fres	shwater	0,014 mg/l	
PNEC Fres	shwater sed	5,29 mg/kg sed dw	
PNEC Soil		1,05 mg/kg soil dw	
PNEC STP)	3 mg/l (AF	10)
PNEC Mari		0,001 mg/l	(AF 500)
	-methylpenta		
PNEC Mari	inewater sed	0,83 mg/kg	sed dw (-)
PNEC Fres	shwater	0,6 mg/l (A	F 50)
PNEC Sea		0,06 mg/l (/	
PNEC Fres	shwater sed	8,27 mg/kg	sed dw (-)
PNEC Soil		1,3 mg/kg s	
PNEC STP		27,5 mg/l (/	
	-hydroxy-4-n		
PNEC Mari	inewater sed		
PNEC Fres	shwater	2 mg/l (AF	
PNEC Fres	shwater sed	7,4 mg/kg s	
PNEC Soil		0,31 mg/kg	soil dw
PNEC STP)	100 mg/l (A	NF 10)
PNEC Mari	inewater	0,2 mg/l (A	F 500)
	hydrogen pe		
	inewater sed	0,047 mg/k	g sed dw
PNEC Fres	shwater	0,013 mg/l	
PNEC Fres	shwater sed	0,047 mg/k	
PNEC Soil		0,002 mg/k	ig soil dw
	0	4,66 mg/l (/	,
PNEC STP		0,013 mg/l	(AF 50)
PNEC STP PNEC Mari	inewater	0,013 mg/i	
PNEC Mari 102-82-9 tr	inewater r ibutylamine inewater sed	_	

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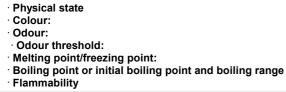
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PNEC Freshwater	0,008 mg/l (AF 1.000) (Contd. of page 5	
PNEC Freshwater sed	35,85 mg/kg sed dw	
PNEC Soil	7,17 mg/kg soil dw	
PNEC STP	100 mg/l (AF 1)	
PNEC Marinewater	0,0008 mg/l (AF 10.000)	
· Ingredients with biol		
108-10-1 4-methylpent		
BMGV (Great Britain) 2		
N	/ledium: urine	
	Sampling time: post shift	
	Parameter: 4-methylpentan-2-one	
· Additional information	The lists valid during the making were used as basis.	
8.2 Exposure controls		
 Appropriate engineer controls 	•	
	No further data; see section 7. measures, such as personal protective equipment	
· General protective a		
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.	
	Be sure to clean skin thoroughly after work and before breaks.	
 Respiratory protection 	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer	
	exposure use self-contained respiratory protective device.	
	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 the	
	degradation	
	Protective gloves	
· Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of	
material of gloves	quality and varies from manufacturer to manufacturer.	
	Butyl rubber, BR	
	Fluorocarbon rubber (Viton)	
	Nitrile rubber, NBR	
Demotration times of	Neoprene	
Penetration time of material	glove The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be	
material	observed.	
· Eye/face protection		
,,	Tightly sealed goggles	
· Body protection:	×	
Body protection.	Protective work clothing	
SECTION & Physics	and chamical properties	
-	al and chemical properties	
9.1 Information on bas · General Information	sic physical and chemical properties	
· Physical state	Fluid	



Fluid Colourless Characteristic Not determined. Not applicable. Not applicable. May cause fire.

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· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
Flash point:	59 °C
Decomposition temperature:	> +60 °C (SADT)
βH	Mixture is non-soluble (in water).
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
Solubility	Not determined.
· water:	Undetermined.
	not determined
 Partition coefficient n-octanol/water (log value) 	Not determined
Vapour pressure:	Not determined.
Density and/or relative density	0.005
Density at 20 °C:	0,995 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 environment,	
and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour
Explosive properties.	mixtures are possible.
· Change in condition	mixiules ale possible.
· Evaporation rate	Not determined
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
•	Void
• Oxidising solids	
Organic peroxides	Heating may cause a fire.
Corrosive to metals	Void
 Desensitised explosives 	Void
• Other safety characteristics • Active oxygen	8,5 - 8,8 %

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available. · 10.2 Chemical stability · Thermal decomposition / 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 selfaccelerating 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. (Contd. on page 8)



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 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 Inform		hazard classes as defined in Regulation (EC) No 1272/2008 Toxic if inhaled.		
· LD/LC50	values re	levant for classification:		
Reaction dihydrope		methylpentane-2,2-diyl dihydroperoxide and 4-methylpentane-2-one and peroxybis-4-methylpentane-2,2-diyl		
Oral	LD50	1.575 mg/kg (rattus)		
Dermal	LD50	>2.000 mg/kg (rattus)		
Inhalative	LC50 / 4h	1,5 mg/l (rattus)		
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 (rattus)		
	LC0 / 4h	1,01 mg/l (rattus)		
6846-50-0	1-isoprop	yl-2,2-dimethyltrimethylene diisobutyrate		
Oral	LD50	3.200 mg/kg (rattus)		
Dermal	LD50	18.900 mg/kg (caviinae)		
108-10-1 4	-methylpe	ntan-2-one		
Oral	LD50	>2.080 mg/kg (rattus)		
Dermal	LD50	>16.000 mg/kg (cuniculosus)		
		n 11 mg/l (ATE)		
	LC50 / 4h 11 mg/l			
123-42-2 4	-hydroxy-4	4-methylpentan-2-one		
Oral	LD50	3.002 mg/kg (rattus)		
102-82-9 t	ributylami	ne		
Oral	LD50	540 mg/kg (rattus)		
Dermal	LD50	250 mg/kg (cuniculosus)		
· Skin corr				
		e/irritation Causes serious eye damage.		
 Respirato sensitisa 				
· Germ cel		icity May cause an allergic skin reaction. Based on available data, the classification criteria are not met.		
Carcinog	•	Suspected of causing cancer.		
· Reprodu				
STOT-sin				
· STOT-rep				
Aspiratio		May be fatal if swallowed and enters airways. other hazards		
· Endocrin	e disruptiı	ng properties		
		its is listed.		
	-			

SECTION 12: Ecological information

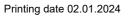
· 12.1 Toxicity

 Aquatic toxicity:

 Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide and 4-methylpentane-2-one and peroxybis-4-methylpentane-2,2-diyl dihydroperoxide

 dihydroperoxide
 EC50 / 72h
 1,33 mg/l (alga (Süsswasser))

 LC50 / 96h
 1,89 mg/l (piscis)
 EC50 / 48h
 4,48 mg/l (daphnia magna)



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ty	
le, failing 10-d wind) (OECD 301 B)	
le) (OECD 301 F)	
le) (OECD 301 A)	
ution	
le)	
le) (OECD 301 B)	
vater: [Log Kow]	
	3 (25°C)
	1,9
an-2-one	-0,09 (20°C)
ion	-1,57 (20°C)
	3,34 (25 °C)
vitrimethylene diisobutyrate	
No further relevant information available	
	annex XIII.
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH,	
The product does not contain substances with endocrine disrupting properties.	
Vonutavia for fich	
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.	
	Ie) (OECD 301 D) /Itrimethylene diisobutyrate Ie, failing 10-d wind) (OECD 301 B) Ie) (OECD 301 F) nn-2-one Ie) (OECD 301 B) vater: [Log Kow] an-2-one ion /Itrimethylene diisobutyrate /Itrimethylene diisobutyrate

SECTION 13: Disposal consi	derations
 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.
· Waste disposal key:	Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)- number. (Contd. on page 10)

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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 ORGANIC PEROXIDE TYPE C, LIQUID (tert-BUTYL
·IATA	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
· Class · Label	5.2 Organic peroxides. 5.2
· Class · Label	5.2 Organic peroxides. 5.2
14.4 Packing group	
· ADR, IMDG, IATA	Void
14.5 Environmental hazards: · Marine pollutant:	Product contains environmentally hazardous substances: tert-BUTYL PEROXYBENZOATE Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Organic peroxides.
Hazard identification number (Kemler code):	D
 Stowage Category Stowage Code 	D SW1 Protected from sources of heat.
· Segregation Code	SG35 Stow "separated from" SGG1-acids
Sogregation obte	SG36 Stow "separated from" SGG18-alkalis.
14.7 Maritime transport in bulk according to IMO instr	
14.7 Maritime transport in bulk according to IMO instr · Transport/Additional information: · ADR	
14.7 Maritime transport in bulk according to IMO instr • Transport/Additional information:	25 ml Code: E0
14.7 Maritime transport in bulk according to IMO instr • Transport/Additional information: • ADR • Limited quantities (LQ)	25 ml
 14.7 Maritime transport in bulk according to IMO instr Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) 	ruments Not applicable. 25 ml Code: E0 Not permitted as Excepted Quantity
 14.7 Maritime transport in bulk according to IMO instr Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category 	ruments Not applicable. 25 ml Code: E0 Not permitted as Excepted Quantity 1
 14.7 Maritime transport in bulk according to IMO instr Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code 	ruments Not applicable. 25 ml Code: E0 Not permitted as Excepted Quantity 1 D

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	(Contd. of page 10)
 Excepted quantities (EQ) 	Code: E0 Not permitted as Excepted Quantity
SECTION 15: Regulatory info	rmation
15.1 Safety, health and environm	ental 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. H2 ACUTE TOXIC P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
 Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements 	50 t
· REGULATION (EC) No	
1907/2006 ANNEX XVII	Conditions of restriction: 3
 DIRECTIVE 2011/65/EU on the re 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	
Regulation (EC) No 273/2004 or	i drug precursors
None of the ingredients is listed.	
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	on
This information is based on our pronot establish a legally valid contract	esent knowledge. However, this shall not constitute a guarantee for any specific product features and shall tual relationship.
· Contact:	Tel: +49 2871 9902-0
 Version number of previous version: Abbreviations and acronyms: 	E-mail: mail@pergan.com 6 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Martine Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Concentration (REACH) DSC: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent DSD: LETHALETAL DSD: Lethal dose, 50 percent DSD: LETHALETAL dose DSD:
	Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 (Contd. on page 12)

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 * Data compared to the previous version altered. (Contd. of page 11)

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