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The Peroxide Company

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

```
· 1.1 Product identifier
```

PEROXAN ME-50 LM4

Trade name:	PEROXAN ME-50 LM4
1.2 Relevant identified uses of	of the substance or mixture and uses advised against
	No further relevant information available.
· Application of the substance	e /
the mixture	Reaction initiator
	For industrial use
1.3 Details of the supplier of t	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 obtainat	ble
from:	Environment protection / Security of labour
	Competent person:
	* Sales Manager Germany: Mr. Ansgar Pappenheim, e-mail: a.pappenheim@pergan.com
	* Export Sales Manager: Mr. Dr. Thomas Philipps, e-mail: dr.philipps@pergan.com
	* Environment protection / : Mr. Christoph Wilting, e-mail: c.wilting@pergan.com Security of labour
1.4 Emergency telephone	
	- Tel: +49 2871 9902-0

SECTION 2: Hazards identification

 2.1 Classification of t Classification accord 			272/2008
		may cause a fire.	
0	•		
		severe skin burns a	
•		serious eye damag	
Skin Sens. 1 H3	317 May cau	ıse an allergic skin ı	reaction.
Muta. 2 H3	841 Suspect	ed of causing genet	ic defects.
Carc. 2 H3	351 Suspect	ed of causing cance	er.
Aquatic Chronic 3 H4	12 Harmful	to aquatic life with I	ong lasting effects.
2.2 Label elements			
 Labelling according 	to		
Regulation (EC) No	1272/2008	The product is cla	ssified and labelled according to the CLP regulation.
 Hazard pictograms 		\land	$\wedge \wedge$
		<≌><	
		GHS02 GHS05 G	
		GH302 GH303 G	n507 Gn506
· Signal word		Danger	
· Hazard-determining	I		
components of labelling:		Reaction mass of	butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane
		tert-butyl hydrope	
		hydrogen peroxide	
· Hazard statements		H242 Heating may	
		H332 Harmful if in	
			ere skin burns and eye damage.
			an allergic skin reaction. of causing genetic defects.
		H351 Suspected of	
			equatic life with long lasting effects.
· Precautionary state	ments	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
, ,		. 2.0	smoking.
		P234	Keep only in original packaging.
		P264	Wash thoroughly after handling.
		P273	Avoid release to the environment.
		P280	Wear protective gloves/protective clothing/eye protection/face protection.
		P303+P361+P353	BIF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
			water.
		P305+P351+P338	B IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
			present and easy to do. Continue rinsing.
		P310	Immediately call a POISON CENTER/doctor.
		P405	Store locked up.
		P410	Protect from sunlight.
			(Contd. on page 2)
			——————————————————————————————————————

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	(Contd. of page 1)
P411+P2	35 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.
· 2.3 Other hazards	loguation.

· Results of PBT and vPvB assessment

Results of PBT and vPvB a
 PBT:

The substances 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.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· vPvB:

CAS: 1338-23-4	Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	30-40%
EC number: 700-954-4 Reg-No.: 01-2119514691-43	Org. Perox. D, H242; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332	-
CAS: 75-91-2	tert-butyl hydroperoxide	2,5-5%
EINECS: 200-915-7 Reg-No.: 01-2119446670-40	Skin Sens. 1, H317	_
	Specific concentration limits: Eye Dam. 1; H318: C ≥ 1 %	
	Skin Sens. 1; H317: C ≥ 0,1 %	
	STOT SE 3; H335: C ≥ 5 %	
CAS: 7722-84-1	hydrogen peroxide solution	1-2,5%
EINECS: 231-765-0 Index number: 008-003-00-9	Ox. Liq. 1, H271; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412	
Reg-No.: 01-2119485845-22	Specific concentration limits: Skin Corr. 1A; H314: C ≥ 70 %	
	Skin Corr. 1B; H314: 50 % ≤ C < 70 %	
	Skin Irrit. 2; H315: 35 % ≤ C < 50 %	
	Eye Dam. 1; H318: C ≥ 8 %	
	Eye Irrit. 2; H319: 5 % ≤ C < 8 %	
	STOT SE 3; C ≥ 35 %	
	Ox. Liq. 1; H271: C ≥ 70 %	
	Ox. Liq. 2; H272: 50 % ≤ C < 70 %	
CAS: 107-41-5	2-methylpentane-2,4-diol	1-2,5%
EINECS: 203-489-0 Index number: 603-053-00-3 Reg-No.: 01-2119539582-35		
· Additional information:	For the wording of the listed hazard phrases refer to section 16.	1

SECTION 4: First aid measures

· 4.1 Description of first aid meas	ures
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.
· 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.
	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. Then consult a doctor.
After swallowing:	Call for a doctor immediately.
-	Drink plenty of water and provide fresh air. 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.
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SECTION 5: Firefighting measures • 5.1 Extinguishing media • Suitable extinguishing agents: • Suitable extinguishing agents: • 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: • Additional information

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:	
	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.
5.1	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.
0.4 Reference to other sections	See Section 7 for information on sale national. 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.
	Do 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.

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	Keep ignition sources away - Do not smoke.
· 7.2 Conditions for safe storage,	including any incompatibilities
Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
Requirements to be met by	
storerooms and receptacles:	Store only in the original receptacle.
	Prevent any seepage into the ground.
	Use only receptacles specifically permitted for this substance/product.
 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 out of the reach of children.
	Storage in a collecting room is required.
· Recommended storage	
temperature (To maintain	
quality):	0 +30 °C
· Storage class:	5.2
· 7.3 Specific end use(s)	No further relevant information available.

SECTION 8: Exposure controls/personal protection

	ol parameter		require monitoring at the workplace:	
•		eroxide solu		
			ue: 2,8 mg/m ³ , 2 ppm	
,			ıe: 1,4 mg/m³, 1 ppm	
		tane-2,4-diol		
WEL (Gre			ue: 123 mg/m³, 25 ppm	
		ong-term valu	ie: 123 mg/m³, 25 ppm	
DNELs				
			ne-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	
Dermal	-	•	1,43 mg/kg bw/day (Worker)	
Inhalative	DNEL Acute	,	7,55 mg/m3	
	-	•	2,52 mg/m3 (Worker)	
	rt-butyl hyd	•		
Dermal	-	•	0,21 mg/kg bw/day (Worker)	
Innalative	DNEL Acute	•	85,2 mg/m3 (Worker)	
	DNEL Acute		28,4 mg/m3 (Worker)	
	-	•	2,2 mg/m3 (Worker)	
DNEL Longterm Local 7722-84-1 hydrogen peroxide solu			0,58 mg/m3 (Worker)	
	DNEL Long	tane-2,4-diol	1,4 mg/m3 (Worker)	
Dermal		•	42 mg/kg bw/day (Worker)	
			44,4 mg/m3 (Worker)	
		lenn System		
· PNECs	Desetter			
		ass of butar d 0,009 mg/k	ne-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	
		0,009 mg/l	-	
PNEC Freshwater sed 0,088 mg/kg PNEC Soil 0.014 mg/kg		-	-	
PNEC ST			-	
PNEC Ma		, 0 ((AF 10.000)	
	rt-butyl hyd	-		
		d 0,001 mg/k	a sed dw	
PNEC Fre		0,002 mg/l	-	
PNEC Sea		0 mg/l (AF		
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UNE(' Freebwater cod	(Contd. of page 4		
PNEC Freshwater sed	0,166 mg/kg soil dw (AF 1.000)		
	0,17 mg/l (AF 100)		
7722-84-1 hydrogen per			
PNEC Marinewater sed			
	0,013 mg/l (AF 50)		
	0,047 mg/kg sed dw		
	0,002 mg/kg soil dw		
	4,66 mg/l (AF 100)		
	0,013 mg/l (AF 50)		
107-41-5 2-methylpenta			
PNEC Marinewater sed			
PNEC Freshwater	0,429 mg/l (AF 1.000)		
PNEC Freshwater sed	1,59 mg/kg sed dw (-)		
PNEC Soil	0,066 mg/kg soil dw (-)		
PNEC STP	20 mg/l (AF 10)		
PNEC Marinewater	0,043 mg/l (AF 10.000)		
· Additional information	n: The lists valid during the making were used as basis.		
8.2 Exposure controls Appropriate engineerir controls	ng No further data: see section 7.		
	neasures, such as personal protective equipment		
General protective and			
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 protectior			
	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 quality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton)		
	Nitrile rubber, NBR		
	Neoprene		
 Penetration time of g material 			
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	Tightly sealed goggles		

9.1 Information on basic physical and chemical properties
 General Information
 Colour:

Colourless

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	(Contd. of page
· 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:	> SADT
•	Not determined.
 Decomposition temperature: 	+60 °C (SADT)
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	24 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:	1,12 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	ient.
and on safety.	·
· Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour
	mixtures are possible.
· Change in condition	'
· Evaporation rate	Not determined.
Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
	Void
Gases under pressure	Void
· Flammable liquids	
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
	Void 8,9 - 9,4 %

SECTION 10: Stability and reactivity

· 10.1 Reactivity

10.2 Chemical stability

• Thermal decomposition / conditions to be avoided:

No further relevant information available.

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.

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	(Contd. of page 6) 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

· LD/LC50 values relevant for classification: 1338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane Oral LD50 1.017 mg/kg (rattus) 75-91-2 tert-butyl hydroperoxide Oral LD50 805 mg/kg /(70%) (rattus) Dermal LD50 633 mg/kg /(70%) (cuniculosus)				
Oral LD50 1.017 mg/kg (rattus) 75-91-2 tert-butyl hydroperoxide Oral LD50 805 mg/kg /(70%) (rattus) Dermal LD50 633 mg/kg /(70%) (cuniculosus)				
75-91-2 tert-butyl hydroperoxide Oral LD50 805 mg/kg /(70%) (rattus) Dermal LD50 633 mg/kg /(70%) (cuniculosus)				
Oral LD50 805 mg/kg /(70%) (rattus) Dermal LD50 633 mg/kg /(70%) (cuniculosus)	1.017 mg/kg (rattus)			
Dermal LD50 633 mg/kg /(70%) (cuniculosus)	75-91-2 tert-butyl hydroperoxide			
Inhalative LC50 / 4h 1,2 mg/l /(70%) (rattus)				
107-41-5 2-methylpentane-2,4-diol				
Oral LD50 >2.000 mg/kg (rattus)				
Dermal LD50 >2.000 mg/kg (cuniculosus)	>2.000 mg/kg (cuniculosus)			
• Skin corrosion/irritation Causes severe skin burns and eye damage.				
Serious eye damage/irritation Causes serious eye damage.				
Respiratory or skin				
sensitisation May cause an allergic skin reaction.				
Germ cell mutagenicity Suspected of causing genetic defects.				
Carcinogenicity Suspected of causing cancer.				
• 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.				
Aspiration hazard Based on available data, the classification criteria are not met.				
11.2 Information on other hazards				
· Endocrine disrupting properties				
None of the ingredients is listed.				

SECTION 12: Ecological information

· Aquatic to	oxicity:	
•	Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	
LC50 / 96h	44,2 mg/l (-)	
75-91-2 tert	rt-butyl hydroperoxide	
EC50 / 72h	n 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	n 20 mg/l /(70%) (daphnia magna)	
107-41-5 2-	-methylpentane-2,4-diol	
LC50 / 96h	8.510 mg/l (gambusia affinis)	
· 12.2 Persis	stence and degradability	
· Degree of	f elimination:	
 Classifica 		
1338-23-4 F	Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	
Degradation	n (Readily biodegradable) (OECD 301 B)	
75-91-2 tert	rt-butyl hydroperoxide	
Degradation	n (Not readily biodegradable) (OECD 301 D)	

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7700 04 4 hudrogen	ide colution	(Contd. of page
7722-84-1 hydrogen perox		
Degradation (Readily biode	egradable)	
107-41-5 2-methylpentane	-2,4-diol	
Degradation (Readily biode	egradable) (OECD 301 F)	
12.3 Bioaccumulative pote	ential	
· Partition coefficient: nOc	ctanol/water: [Log Kow]	
1338-23-4 Reaction mass of	of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	2,04 (25°C)
75-91-2 tert-butyl hydroperoxide		0,85 (30 °C
7722-84-1 hydrogen peroxide solution		-1,57 (20°C
107-41-5 2-methylpentane-2,4-diol		< 1
110-05-4 di-tert-butyl pero	xide	3,2 (22°C)
40.4 Mahiliterin aali	No further relevant information available.	
· 12.4 Mobility in soil		
12.4 Mobility in soil	PvB assessment	
	PvB assessment The substances in the mixture do not meet the PBT/vPvB criteria according to	REACH, annex XIII.
12.5 Results of PBT and v		
 12.5 Results of PBT and v PBT: 	The substances in the mixture do not meet the PBT/vPvB criteria according to The substances in the mixture do not meet the PBT/vPvB criteria according to	
• 12.5 Results of PBT and v • PBT: • vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to The substances in the mixture do not meet the PBT/vPvB criteria according to	REACH, annex XIII.
• 12.5 Results of PBT and v • PBT: • vPvB: • 12.6 Endocrine disrupting	The substances in the mixture do not meet the PBT/vPvB criteria according to The substances in the mixture do not meet the PBT/vPvB criteria according to The product does not contain substances with endocrine disrupting properties	REACH, annex XIII.
• 12.5 Results of PBT and v • PBT: • vPvB: • 12.6 Endocrine disrupting properties	The substances in the mixture do not meet the PBT/vPvB criteria according to The substances in the mixture do not meet the PBT/vPvB criteria according to The product does not contain substances with endocrine disrupting properties	REACH, annex XIII.
 12.5 Results of PBT and view PBT: vPvB: 12.6 Endocrine disrupting properties 12.7 Other adverse effects 	The substances in the mixture do not meet the PBT/vPvB criteria according to The substances in the mixture do not meet the PBT/vPvB criteria according to The product does not contain substances with endocrine disrupting properties	REACH, annex XIII.
 12.5 Results of PBT and view PBT: vPvB: 12.6 Endocrine disrupting properties 12.7 Other adverse effects Additional ecological info 	The substances in the mixture do not meet the PBT/vPvB criteria according to The substances in the mixture do not meet the PBT/vPvB criteria according to The product does not contain substances with endocrine disrupting properties prmation:	o REACH, annex XIII. s.
 12.5 Results of PBT and view PBT: vPvB: 12.6 Endocrine disrupting properties 12.7 Other adverse effects Additional ecological info 	The substances in the mixture do not meet the PBT/vPvB criteria according to The substances in the mixture do not meet the PBT/vPvB criteria according to The product does not contain substances with endocrine disrupting properties formation: Must not reach sewage water or drainage ditch undiluted or unneutralised.	o REACH, annex XIII. s.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation



number.

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:

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	UN3105
· 14.2 UN proper shipping name · ADR	UN3105 ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
· IMDG, IATA	ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
· 14.3 Transport hazard class(es)	
ADR	
• Class • Label	5.2 (P1) Organic peroxides. 5.2
Class	5.2 Organic peroxides.
· Label	5.2
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14.4 Packing group	(Contd. of pa
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for use	
Hazard identification number (I	
 Stowage Category Stowage Code 	D SW1 Protected from sources of heat.
· Segregation Code	SG35 Stow "separated from" SGG1-acids
	SG36 Stow "separated from" SGG18-alkalis.
	SG72 See 7.2.6.3.2.
	ccording to IMO instruments Not applicable.
Transport/Additional informatio	n:
ADR	
 Limited quantities (LQ) Excepted quantities (EQ) 	125 ml Code: E0
Excepted quantities (EQ)	Not permitted as Excepted Quantity
· Transport category	2
Tunnel restriction code	D
· RID / GGVSEB:	like ADR
IMDG	
 Limited quantities (LQ) 	125 ml
 Excepted quantities (EQ) 	Code: E0 Not permitted as Excepted Quantity
15.1 Safety, health and environm	rmation nental regulations/legislation specific for the substance or mixture
15.1 Safety, health and environm Directive 2012/18/EU • Named dangerous substances	nental regulations/legislation specific for the substance or mixture
5.1 Safety, health and environm Directive 2012/18/EU Named dangerous substances - ANNEX I	nental regulations/legislation specific for the substance or mixture None of the ingredients is listed.
15.1 Safety, health and environm Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category	nental regulations/legislation specific for the substance or mixture None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
5.1 Safety, health and environm Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for	nental regulations/legislation specific for the substance or mixture None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
5.1 Safety, health and environm Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category	nental regulations/legislation specific for the substance or mixture None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
5.1 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	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
5.1 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	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
5.1 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	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
5.1 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	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES 50 t 200 t Conditions of restriction: 3
5.1 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 re	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES 50 t 200 t
5.1 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 refut	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES 50 t 200 t Conditions of restriction: 3
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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 re II None of the ingredients is listed. REGULATION (EU) 2019/1148 Annex I - RESTRICTED EXPLOT	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES 50 t 200 t Conditions of restriction: 3 estriction of the use of certain hazardous substances in electrical and electronic equipment – An SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
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 re II None of the ingredients is listed. REGULATION (EU) 2019/1148 Annex I - RESTRICTED EXPLO None of the ingredients is listed.	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES 50 t 200 t Conditions of restriction: 3 estriction of the use of certain hazardous substances in electrical and electronic equipment – An SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) OSIVES PRECURSORS
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 re II None of the ingredients is listed. REGULATION (EU) 2019/1148 Annex I - RESTRICTED EXPLO None of the ingredients is listed.	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES 50 t 200 t Conditions of restriction: 3 estriction of the use of certain hazardous substances in electrical and electronic equipment – An SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) OSIVES PRECURSORS
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 re II None of the ingredients is listed. REGULATION (EU) 2019/1148 Annex I - RESTRICTED EXPLO None of the ingredients is listed. Annex II - REPORTABLE EXPLO None of the ingredients is listed.	hental regulations/legislation specific for the substance or mixture None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES 50 t 200 t Conditions of restriction: 3 estriction of the use of certain hazardous substances in electrical and electronic equipment – An SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) OSIVES PRECURSORS in drug precursors
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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: Environmen

Environment protection / Security of labour

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Version: 4 (replaces version 3)

Revision: 26.06.2023

Trade name: PEROXAN ME-50 LM4

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Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
Version number of previous	
version:	3
Abbreviations and acronyms:	RID: 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 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
	PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Lig. 3: Flammable liquids – Category 3
	Ox. Liq. 5: Additional figures – Category 1 Org. Perox. D: Organic peroxides – Type C/D
	Org. Perox. F: Organic peroxides – Type E/F Acute Tox. 4: Acute toxicity – Category 4
	Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 2: Acute toxicity – Category 2
	Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Corr. 1B: Skin corrosion/irritation – Category 1B
	Skin Corr. 1C: Skin corrosion/irritation – Category 1C Skin Irrit. 2: Skin corrosion/irritation – Category 2
	Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
	Skin Sens. 1: Skin sensitisation – Category 1 Muta. 2: Germ cell mutagenicity – Category 2
	Carc. 2: Carcinogenicity – 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
* Data compared to the	

previous version altered.

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