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The Peroxide Company

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

```
· 1.1 Product identifier
```

the mixture

PEROXAN ME-50 LU 1 X

· 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 /

Reaction initiator For industrial use

• 1.3 Details of the supplier of the • Manufacturer/Supplier:	PERGAN GmbH Hilfsstoffe für industrielle Prozesse Schlavenhorst 71 D-46395 Bocholt Tel: +49 2871 9902-0 Fax: +49 2871 9902-50
 Further information obtainable from: 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 a	ccording to R	legulation (EC) No	1272/2008
Org. Perox. D	H242 Heat	ting may cause a fir	e.
Acute Tox. 4	H302 Harn	nful if swallowed.	
Acute Tox. 3	H331 Toxi	c if inhaled.	
Skin Corr. 1B	H314 Caus	ses severe skin bur	ns and eye damage.
Eye Dam. 1		ses serious eye dar	
Carc. 1B		cause cancer.	naye.
			the unharm shild
Repr. 2		pected of damaging	vith long lasting effects.
·			
 2.2 Label elemer Labelling accor 			
Regulation (EC)	•	8 The product is	classified and labelled according to the CLP regulation.
Hazard pictogr			
		GHS02 GHS05	GHS06 GHS08
· Signal word		Danger	
· Hazard-determ	•		
components of	f labelling:		of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane
			dimethyltrimethylene diisobutyrate
		Cumene	enzyl hydroperoxide
· Hazard stateme	ents		may cause a fire.
	onto	H302 Harmful	
		H331 Toxic if	
		H314 Causes	severe skin burns and eye damage.
		H350 May cau	
			ted of damaging the unborn child.
Dressutionsmu	atata manta		to aquatic life with long lasting effects.
· Precautionary	statements	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		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.
		P264	Wash thoroughly after handling.
		P273	Avoid release to the environment.
		P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
		D303+D361+D	protection. 353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
		1 303 11 301 11 3	water [or shower].
		P305+P351+P3	338 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.
		P411+P235	Store at temperatures not exceeding +30°C. Keep cool. (Contd. on page 2)

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		(Contd. c	of page 1)
	P420	Store separately.	
	P501	Dispose of contents/container in accordance with local/regional/national/internati regulations.	onal
 Additional information: 	Restricted t	to professional users.	
 2.3 Other hazards 			
· Results of PBT and vPvB as	sessment		
· PBT:	The substa	nces in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.	
· vPvB:		nces in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.	
• Determination of endocrine	disrupting prop	perties	
78-93-3 butanone			List II

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

 Dangerous components: 		
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	30-50%
CAS: 1338-23-4 EC number: 700-954-4 Reg-No.: 01-2119514691-43	Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane Org. Perox. D, H242; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332	25-40%
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 %	2,5-20%
CAS: 80-15-9 EINECS: 201-254-7 Index number: 617-002-00-8 Reg-No.: 01-2119475796-19		5-10%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg-No.: 01-2119457290-43	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	0,1-5%
CAS: 7722-84-1 EINECS: 231-765-0 Index number: 008-003-00-9 Reg-No.: 01-2119485845-22	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 %	0,1-5%
CAS: 98-82-8 EINECS: 202-704-5 Index number: 601-024-00-X Reg-No.: 01-2119473983-24	Cumene Flam. Liq. 3, H226; Carc. 1B, H350; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335	0,1-1%
· 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: Imme

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.

Remove breathing equipment only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.



Take care of personal protection for the first aider.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

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		(Contd. of page 2)
	In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep guiet.	
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.	

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

Suitable extinguishing agents: 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters Protective equipment: Additional information CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid. Solutional information CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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. 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe	
handling	Keep away from heat and direct sunlight.
-	Ensure good ventilation/exhaustion at the workplace.
	Open and handle receptacle with care.
	Prevent formation of aerosols.
	Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
	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.

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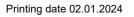
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	Avoid shock and friction.	(Contd. of page 3)
	Avoid shock and inclidit.	
	Do not smoke.	
· Information about fire - and	\bullet	
explosion protection:	Protect from heat.	
	Prevent impact and friction.	
	Keep respiratory protective device available.	
	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 go	ods
• Requirements to be met by		,uo.
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.	
· Recommended storage	Storage in a collecting room is required.	
temperature (To maintain		
quality):	0 +30 °C	
· Storage class:	52	
7.3 Specific end use(s)	5.2 No further relevant information available.	
r.s specific end use(s)		

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters · Ingredients with limit values that require monitoring at the workplace: 123-42-2 4-hydroxy-4-methylpentan-2-one OEL (Ireland) Long-term value: 240 mg/m³, 50 ppm WEL (Great Britain) Short-term value: 362 mg/m³, 75 ppm Long-term value: 241 mg/m³, 50 ppm 78-93-3 butanone Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm OEL (Ireland) Sk, IOELV IOELV (EU) Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm WEL (Great Britain) Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV 7722-84-1 hydrogen peroxide solution OEL (Ireland) Short-term value: 3 mg/m³, 2 ppm Long-term value: 1,5 mg/m3, 1 ppm WEL (Great Britain) Short-term value: 2,8 mg/m³, 2 ppm Long-term value: 1,4 mg/m³, 1 ppm 98-82-8 Cumene OEL (Ireland) Short-term value: 250 mg/m³, 50 ppm Long-term value: 50 mg/m³, 10 ppm Sk, IOELV IOELV (EU) Short-term value: 250 mg/m³, 50 ppm Long-term value: 50 mg/m³, 10 ppm Skin (Contd. on page 5)



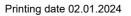
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WEL (Creat	Dritain) Ch	aart tarm valua. 250 ma/m ³ 50 nnm	(Contd. of pag
WEL (Great		nort-term value: 250 mg/m³, 50 ppm ong-term value: 125 mg/m³, 25 ppm	
	Sk		
·DNELs			
6846-50-0 1-	-isopropyl-2	-2,2-dimethyltrimethylene diisobutyrate	
Dermal D	NEL Longte	erm System 5 mg/kg bw/day (Worker)	
Inhalative D	NEL Longte	erm System 17,62 mg/m3 (Worker)	
		ass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	
		erm System 1,43 mg/kg bw/day (Worker)	
Inhalative D			
	-	erm System 2,52 mg/m3 (Worker)	
		methylpentan-2-one	
	-	erm System 467 mg/kg bw/day (Worker)	
		erm System 32,6 mg/m3 (Worker)	
		penzyl hydroperoxide	
		erm System 6 mg/m3 (Worker)	
7 8-93-3 buta Dermal D		arm System 1 161 malka bulday (Markar)	
	-	erm System 1.161 mg/kg bw/day (Worker) erm System 600 mg/m3 (Worker)	
		eroxide solution	
nhalative D			
98-82-8 Cur	-		
		erm System 15,4 mg/kg bw/day (Worker)	
	-	erm System 100 mg/m3 (Worker)	
·PNECs			
	io o na na na l	0.0 dimathy drimathy dana dija ahy trata	
		-2,2-dimethyltrimethylene diisobutyrate	
PNEC Marin PNEC Fresh		1 0,529 mg/kg sed dw (-)	
PNEC Fresh		0,014 mg/l (AF 50) 5,29 mg/kg sed dw	
PNEC Soil	iwalei seu	1,05 mg/kg soil dw	
PNEC STP		3 mg/l (AF 10)	
PNEC Marin		0,001 mg/l (AF 500)	
		ass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	
		I 0,009 mg/kg sed dw	
PNEC Fresh		0,006 mg/l (AF 1.000)	
PNEC Fresh			
PNEC Soil		0,014 mg/kg soil dw	
PNEC STP		1,2 mg/l (AF 10)	
PNEC Marin		0,001 mg/l (AF 10.000)	
		methylpentan-2-one	
		l 0,74 mg/kg sed dw	
PNEC Fresh		2 mg/l (AF 50)	
PNEC Fresh	water sed	7,4 mg/kg sed dw	
PNEC Soil		0,31 mg/kg soil dw	
PNEC STP		100 mg/l (AF 10)	
PNEC Marin	ewater	0,2 mg/l (AF 500)	
80-15-9 α,α	-dimethylbe	penzyl hydroperoxide	
	-	i 0,002 mg/kg sed dw (-)	
PNEC Fresh		0,003 mg/l (AF 1.000)	
PNEC Fresh	water sed	0,023 mg/kg sed dw (-)	
PNEC Soil		0,003 mg/kg soil dw (-)	
		0,35 mg/l (-)	
PNEC STP	ewater	0 mg/l (AF 10.000)	
PNEC STP			
PNEC Marin 7722-84-1 h y			
PNEC Marin 7722-84-1 h y		l 0,047 mg/kg sed dw	
PNEC Marin 7722-84-1 h y	ewater sed		



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	(Contd. of page §
PNEC Soil	0,002 mg/kg soil dw
PNEC STP	4,66 mg/l (AF 100)
PNEC Marinewater	0,013 mg/l (AF 50)
98-82-8 Cumene	
PNEC Marinewater sed	0,322 mg/kg sed dw (-)
PNEC Freshwater	0,035 mg/l (AF 10)
PNEC Freshwater sed	3,22 mg/kg sed dw (-)
PNEC Soil	0,624 mg/kg soil dw (-)
PNEC STP	200 mg/l (AF 10)
PNEC Marinewater	0,004 mg/l (AF 100)
· Ingredients with biology	ogical limit values:
78-93-3 butanone	o 1/1
BMGV (Great Britain) 7	0 μmol/L ledium: urine
	ampling time: post shift
	arameter: butan-2-one
· Additional informatio	n: The lists valid during the making were used as basis.
8.2 Exposure controls	
Appropriate engineeri	ng
controls	No further data; see section 7.
 Individual protection i General protective an 	neasures, 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.
	Avoid contact with the eyes and skin.
	Do not eat, drink, smoke or sniff while working.
	Use skin protection cream for skin protection.
. Pooniratory protoctio	Be sure to clean skin thoroughly after work and before breaks.
· Respiratory protectio	n: 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
	quality and varies from manufacturer to manufacturer.
	Butyl rubber, BR Fluorocarbon rubber (Viton)
	Nitrile rubber, NBR
	Neoprene
· Penetration time of g	
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
· Body protection:	
2003 81000000	Protective work clothing
	I and chemical properties
	ic physical and chemical properties
General Information • Physical state	Fluid
· Colour:	colourless - yellowish
	Characteristic

Characteristic

- colour:
- · Odour:

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	(Contd. of page
· 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.
 Lower and upper explosion limit 	
· Lower:	Not determined.
· Upper:	Not determined.
Flash point:	> SADT
Decomposition temperature:	> +60 °C (SADT)
pH	Not determined.
· Viscosity:	
Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	16 mPas
Solubility	
· water:	Undetermined.
Partition coefficient n-octanol/water (log value)	not determined
	Not determined.
· Vapour pressure:	Not determined.
Density and/or relative density	
· Density at 20 °C:	1,018 g/cm ³
· Relative density	Not determined.
Vapour density	Not determined.
 Form: Important information on protection of health and environmand on safety. Ignition temperature: 	Fluid ent, Product is not selfigniting.
Explosive properties:	Product is not senginiting. 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
Gases under pressure	Void
· Flammable liquids	Void
· 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
	Void
· Uxidisina liquids	
· Oxidising liquids · Oxidising solids	Void
· Oxidising solids	Void Heating may cause a fire
	Void Heating may cause a fire. Void

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	
10 C Hazardava da	heavy-metal compounds and amines).
10.6 Hazardous de	•
products:	Hydrocarbons, carbondioxide and -monoxid. No hazardous decomposition products if used and stored according to specifications.
· Additional information	
	ition: Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.
	vicological information
• 11.1 Information of • Acute toxicity	kicological information n hazard classes as defined in Regulation (EC) No 1272/2008 Harmful if swallowed. Toxic if inhaled. elevant for classification:
• 11.1 Information of • Acute toxicity • LD/LC50 values r	n hazard classes as defined in Regulation (EC) No 1272/2008 Harmful if swallowed. Toxic if inhaled.
• 11.1 Information of • Acute toxicity • LD/LC50 values r	h hazard classes as defined in Regulation (EC) No 1272/2008 Harmful if swallowed. Toxic if inhaled. elevant for classification:
• 11.1 Information o • Acute toxicity • LD/LC50 values r 6846-50-0 1-isopro	h hazard classes as defined in Regulation (EC) No 1272/2008 Harmful if swallowed. Toxic if inhaled. elevant for classification: pyl-2,2-dimethyltrimethylene diisobutyrate
11.1 Information of Acute toxicity · LD/LC50 values r 6846-50-0 1-isopro Oral LD50 Dermal LD50	h hazard classes as defined in Regulation (EC) No 1272/2008 Harmful if swallowed. Toxic if inhaled. elevant for classification: pyl-2,2-dimethyltrimethylene diisobutyrate 3.200 mg/kg (rattus)
11.1 Information of Acute toxicity · LD/LC50 values r 6846-50-0 1-isopro Oral LD50 Dermal LD50	h hazard classes as defined in Regulation (EC) No 1272/2008 Harmful if swallowed. Toxic if inhaled. elevant for classification: pyl-2,2-dimethyltrimethylene diisobutyrate 3.200 mg/kg (rattus) 18.900 mg/kg (caviinae)

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 • Acute toxicity Harmful if swallowed. Toxic if inhaled.			
· LD/LC50	values rel	levant for classification:	
6846-50-0	1-isoprop	yl-2,2-dimethyltrimethylene diisobutyrate	
Oral	LD50	3.200 mg/kg (rattus)	
Dermal	LD50	18.900 mg/kg (caviinae)	
1338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane			
Oral	LD50	1.017 mg/kg (rattus)	
123-42-2 4	l-hydroxy-4	4-methylpentan-2-one	
Oral	LD50	3.002 mg/kg (rattus)	
80-15-9 α,	α -dimethy	/lbenzyl hydroperoxide	
Oral	LD50	200-2.000 mg/kg (rattus)	
Dermal	LD50	400-2.000 mg/kg (rattus)	
Inhalative	LC50 / 4h	0,5-2 mg/l (rattus)	
98-82-8 Cumene			
Oral	LD50	2.260 mg/kg (rattus)	
Dermal	LD50	12.300 mg/kg (cuniculosus)	
Inhalative	LC50 / 4h	24,7 mg/l (mus)	
Skin corrosion/irritation Causes severe skin burns and eye damage. Sarious ave damage/irritation Causes serious ave damage.			

Okin conosion/innation	Causes severe skill bullis and eye damage.	
 Serious eye damage/irritation 	Causes serious eye damage.	
Respiratory or skin		
sensitisation	Based on available data, the classification criteria are not met.	
 Germ cell mutagenicity 	Based on available data, the classification criteria are not met.	
· Carcinogenicity	May cause cancer.	
 Reproductive toxicity 	Suspected of damaging the unborn child.	
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 haza	rds	
Endocrine disrupting properties	es	
78-93-3 butanone		List II

SECTION 12: Ecological information

· 12.1 Toxicity	
· Aquatic toxicity:	
1338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxid	dane
LC50 / 96h 44,2 mg/l (-)	
80-15-9 α,α -dimethylbenzyl hydroperoxide	
LC50 10-100 mg/l (leuciscus idus)	
78-93-3 butanone	
LC50 / 96h 3.220 mg/l (pimephales promelas)	
EC50 / 48h 5.091 mg/l (daphnia magna)	
 12.2 Persistence and degradability Degree of elimination: 	
· Classification:	
6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	
Degradation (Readily biodegradable, failing 10-d wind) (OECD 301 B)	
	(Contd. on page 9)
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1338-23-4	Reaction mass of bu	tane-2.2-diyl dihydroperoxide and di-sec-butylhexaoxidane	(Contd. of page a
	n (Readily biodegrad		
-	-hydroxy-4-methylpe		
	n (Readily biodegrad		
-	α -dimethylbenzyl hyd		
		radable) (OECD 301 B)	
78-93-3 bu	· · ·		
Degradatio	n (Readily biodegrad	lable) (OECD 301 D)	
	hydrogen peroxide s		
	n (Readily biodegrad		
98-82-8 Cu	umene	· · · · · · · · · · · · · · · · · · ·	
Degradatio	n (Readily biodegrad	lable)	
· 12.3 Bioac	cumulative potential		
	coefficient: nOctano		
1338-23-4	Reaction mass of but	ane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	2,04 (25°C)
	4-hydroxy-4-methylpe		-0,09 (20°C
	α,α -dimethylbenzyl h		1,6 (25°C)
78-93-3	butanone		0,3 (40°C)
7722-84-1	hydrogen peroxide so	lution	-1,57 (20°C
98-82-8	Cumene		3,55 (20°C)
617-94-7	2-Phenyl-2-propanol		1,89 (25°C)
98-86-2	acetophenone		1,65 (20°C)
102-82-9	tributylamine		3,34 (25 °C)
· Bioconce	ntration factor (BCF)		
	, ,	thyltrimethylene diisobutyrate	
	194 (piscis)		
12.4 Mobil		No further relevant information available.	
	Its of PBT and vPvB		
· PBT:		The substances in the mixture do not meet the PBT/vPvB criteria according to REAC	H, annex XIII.
· vPvB:		The substances in the mixture do not meet the PBT/vPvB criteria according to REAC	H, annex XIII.
	crine disrupting		
properties		For information on endocrine disrupting properties see section 11.	
	adverse effects	l lannafail da filai	
· Remark:	I ecological informat	Harmful to fish	
General		Harmful to aquatic organisms	
General	notes.	Must not reach sewage water or drainage ditch undiluted or unneutralised.	
		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.	

SECTION 13	3: Disposal	considerations
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13.1 Waste treatment methods
 Recommendation

X

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.

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

UN3105

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	(Contd. of page
· 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 · Label	5.2 Organic peroxides. 5.2
· 14.4 Packing group · ADR, IMDG	Void
14.5 Environmental hazards:	Not applicable.
 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category Stowage Code Segregation Code 	Warning: Organic peroxides. - D 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	ruments Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	125 ml Code: E0 Not permitted as Excepted Quantity
 Transport category Tunnel restriction code 	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 information

 \cdot 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

 Directive 2012/18/EU Named dangerous substances ANNEX I 	None of the ingredients is listed.
· Seveso category	H2 ACUTE TOXIC 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 	50 t
requirements	200 t
REGULATION (EC) No 1907/2006 ANNEX XVII	Conditions of restriction: 3



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• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment -	Annex
None of the ingredients is listed.	
· REGULATION (EU) 2019/1148	
· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))	
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	
78-93-3 butanone	3
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in de precursors	ug
78-93-3 butanone	3

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.

0,	
· Relevant phrases	H225 Highly flammable liquid and vapour.
	H226 Flammable liquid and vapour.
	H242 Heating may cause a fire.
	H271 May cause fire or explosion; strong oxidiser.
	H272 May intensify fire; oxidiser.
	H302 Harmful if swallowed.
	H304 May be fatal if swallowed and enters airways.
	H312 Harmful in contact with skin.
	H314 Causes severe skin burns and eye damage.
	H315 Causes skin irritation.
	H318 Causes serious eye damage.
	H319 Causes serious eye irritation.
	H331 Toxic if inhaled.
	H332 Harmful if inhaled.
	H335 May cause respiratory irritation.
	H336 May cause drowsiness or dizziness.
	H350 May cause cancer.
	H361d Suspected of damaging the unborn child.
	H373 May cause damage to organs through prolonged or repeated exposure.
	H411 Toxic to aquatic life with long lasting effects.
	H412 Harmful to aquatic life with long lasting effects.
	EUH066 Repeated exposure may cause skin dryness or cracking.
· Contact:	Ге!: +49 2871 9902-0
	E-mail: mail@pergan.com
· Version number of previous	
version:	10
Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International
· ·····,	Carriage of Dangerous Goods by Road)
	MDG: International Maritime Code for Dangerous Goods ATA: International Air Transport Association
	SHS: 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)
	NEL: Derived No-Effect Level (REACH)
	PNEC: Predicted No-Effect Concentration (REACH)
	.C50: Lethal concentration, 50 percent .D50: Lethal dose, 50 percent
	BT: Persistent, Bioaccumulative and Toxic
	/PvB: very Persistent and very Bioaccumulative
	Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3
	rani. Liq. 3. Franinable fiquids – Category 3 X. Liq. 1: Oxidizing liquids – Category 1
	Drg. Perox. D: Organic peroxides – Type C/D
	Drg. Perox. E: Organic peroxides – Type E/F
	Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3
	skin Corr. 1A: Skin corrosion/irritation – Category 1A
	Skin Corr. 1B: Skin corrosion/irritation – Category 1B
	Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
	zye init. z. serious sye danage/sye initiation – Category 2 Janc, 1B: Carcinogenicity – Category 1B
	Repr. 2: Reproductive toxicity – Category 2
	STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
	s, Tox, T, Spicilic larget organitoxicuty (repeated exposure) – Category 2 (sp. Tox, T, Sapiration hazard – Category 1
	Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
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Trade name: PEROXAN ME-50 LU 1 X

 * Data compared to the previous version altered. Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

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