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

```
· 1.1 Product identifier
```

PEROXAN ME-50 LX

Trade name:
 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	safety data sheet
· Manufacturer/Supplier:	PERGAN GmbH Hilfsstoffe für industrielle Prozesse Schlavenhorst 71 D-46395 Bocholt Tel: +49 2871 9902-0 Fax: +49 2871 9902-50
 Further information obtainable from: 1.4 Emergency telephone 	Qualified person: E-mail: msds@pergan.com
number:	- Tel: +49 2871 9902-0

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

1	 Classification according to Regulation (EC) No 1272/2008 		
	Org. Perox. D	H242	Heating may cause a fire.
	Acute Tox. 4	H332	Harmful if inhaled.
	Skin Corr. 1B	H314	Causes severe skin burns and eye damage.
	Eye Dam. 1	H318	Causes serious eye damage.
	Repr. 2	H361d	Suspected of damaging the unborn child.
	Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

2.2 Label elements

 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms 	The product is clas	ssified and labelled according to the CLP regulation.
	GHS02 GHS05 GI	1S07 GHS08
· Signal word	Danger	
 Hazard-determining components of labelling: 		
· Hazard statements	H242 Heating ma H332 Harmful if in H314 Causes sev H361d Suspected	y cause a fire.
 Precautionary statements 	P210 P220 P234 P264 P280	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines). Keep only in original packaging. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
		F ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
	P305+P351+P338 P310 P405 P410 P411+P235 P420 P501	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Store locked up. Protect from sunlight. Store at temperatures not exceeding +30°C. Keep cool. Store separately. Dispose of contents/container in accordance with local/regional/national/international
· 2.3 Other hazards · Results of PBT and vPvB asses	sment	regulations.

· PBT:

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· vPvB:	(Contd. of page 1) The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.	
· Determination of endocrine-disrupting properties		
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	40-50%
CAS: 1338-23-4 EC number: 700-954-4 Reg-No.: 01-2119514691-43		30-40%
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 %	5-20%
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	1-5%
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 %	1-5%
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	0,1-1%
· 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.

treatment needed	No further relevant information available.
· 4.3 Indication of any immediate medical attention and special	
delayed	No further relevant information available.
 4.2 Most important symptoms and effects, both acute and 	
 After swallowing: 	Drink plenty of water and provide fresh air. Call for a doctor immediately.
 After eye contact: 	Rinse opened eye for several minutes under running water. Then consult a doctor.
	Immediately remove contaminated clothing.
• After skin contact:	Immediately wash with water and soap and rinse thoroughly.
	In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep quiet.
	persist.
 After inhalation: 	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms

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(Contd. of page 2)

SECTION 5: Firefighting measures • 5.1 Extinguishing media • Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 5.2 Special hazards arising from the substance or mixture Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid. • 5.3 Advice for firefighters 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.
	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

Y

· 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. Avoid shock and friction.
	Avoid shock and includit.
	bo not smoke.
Information about fire - and	
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.

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		(Contd. of page 3)
· 7.2 Conditions for safe storage,	including any incompatibilities	
Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goo	ds.
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.	
 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

· 8.1 Control parameters			
Ingredients with limit values that require monitoring at the workplace:			
123-42-2 4	4-hydroxy-4-	methylpenta	n-2-one
WEL (Great Britain) Short-term value: 362 mg/m³, 75 ppm			
		ong-term valu	e: 241 mg/m³, 50 ppm
78-93-3 bi			
IOELV (El			e: 900 mg/m ³ , 300 ppm
			e: 600 mg/m ³ , 200 ppm
WEL (Gre			ie: 899 mg/m³, 300 ppm e: 600 mg/m³, 200 ppm
		k, BMGV	c. 600 mg/m , 200 pp/m
7722-84-1	hydrogen p	eroxide solu	tion
WEL (Gre			e: 2,8 mg/m³, 2 ppm
	L	ong-term valu	e: 1,4 mg/m³, 1 ppm
· DNELs			
6846-50-0			Itrimethylene diisobutyrate
Dermal	DNEL Long	term System	5 mg/kg bw/day (Worker)
			17,62 mg/m3 (Worker)
1338-23-4			e-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)
		methylpenta	
Dermal	-	•	467 mg/kg bw/day (Worker)
	0	term System	32,6 mg/m3 (Worker)
78-93-3 bi			
Dermal	-	•	1.161 mg/kg bw/day (Worker)
	-	•	600 mg/m3 (Worker)
		eroxide solu	
	DNEL Long		1,4 mg/m3 (Worker)
	tributylamin		
Inhalative	DNEL Acute	·	10,6 mg/m3 (Worker)
	-	•	5,3 mg/m3 (Worker)
	DNEL Long	term Local	15,2 mg/m3 (Worker)
PNECs			
6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate			
		d 0,529 mg/k	
PNEC Fre		0,014 mg/l	
PNEC Fre	eshwater sed	5,29 mg/kg	
			(Contd. on page MT



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	(Contd. of page 4)			
PNEC Soil	1,05 mg/kg soil dw			
PNEC STP	3 mg/l (AF 10)			
PNEC Marinewater	0,001 mg/l (AF 500)			
1338-23-4 Reaction m	1338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane			
PNEC Marinewater see				
PNEC Freshwater	0,006 mg/l (AF 1.000)			
PNEC Freshwater sed	0,088 mg/kg sed dw			
PNEC Soil	0,014 mg/kg soil dw			
PNEC STP	1,2 mg/l (AF 10)			
PNEC Marinewater	0,001 mg/l (AF 10.000)			
123-42-2 4-hydroxy-4-				
PNEC Marinewater see	I 0,74 mg/kg sed dw			
PNEC Freshwater	2 mg/l (AF 50)			
PNEC Freshwater sed	7,4 mg/kg sed dw			
PNEC Soil	0,31 mg/kg soil dw			
PNEC STP	100 mg/l (AF 10)			
PNEC Marinewater	0,2 mg/l (AF 500)			
7722-84-1 hydrogen p	eroxide solution			
PNEC Marinewater see				
PNEC Freshwater	0,013 mg/l (AF 50)			
PNEC Freshwater sed				
PNEC Soil	0,002 mg/kg soil dw			
PNEC STP	4,66 mg/l (AF 100)			
PNEC Marinewater	0,013 mg/l (AF 50)			
102-82-9 tributylamin	9			
PNEC Marinewater see	I 3,59 mg/kg sed dw			
PNEC Freshwater	0,008 mg/l (AF 1.000)			
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 bio	logical limit values:			
78-93-3 butanone				
BMGV (Great Britain)				
	Sampling time: post shift Parameter: butan-2-one			
· Additional informati				
8.2 Exposure control				
 Appropriate enginee controls 	No further data; see section 7.			
	measures, such as personal protective equipment			
General protective a				
hygienic measures:				
	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. Be sure to clean skin thoroughly after work and before breaks.			
· Respiratory protecti				
	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			

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	(Contd. of page 5)
· 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 glove	•
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:	
	Protective work clothing

SECTION 9: Physical and chemical properties

ocorrow 5: 1 hysical and chemical properties	
· 9.1 Information on basic physical and chemical properties	
General Information	
· Physical state	Fluid
· Colour:	Colourless
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not applicable.
Boiling point or initial boiling point and boiling range	11
	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:	Not determined.
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:	1,01 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
	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
	(Contd. on page 7)



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		(Contd. of page 6)
 Self-heating substances and mixtures 	Void	
· Substances and mixtures, which emit flammable gase	es in	
contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Heating may cause a fire.	
Corrosive to metals	Void	
 Desensitised explosives 	Void	
Other safety characteristics		
· Active oxygen	8,8 - 9,3 %	

SECTION 10: Stability and reactivity

of other to. Other the curves	
· 10.1 Reactivity · 10.2 Chemical stability · Thermal decomposition /	No further relevant information available.
conditions to be avoided:	SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause decomposition at and above the temperature. Contact with incompatible substances can cause decomposition at or below the SADT. No decomposition if used and stored according to specifications. To avoid thermal decomposition do not overheat.
 10.3 Possibility of hazardous 	
reactions	Self-accelerating decomposition at SADT.
 10.4 Conditions to avoid 	No further relevant information available.
· 10.5 Incompatible materials:	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e.g. heavy-metal compounds and amines).
 10.6 Hazardous decomposition 	
products:	Hydrocarbons, carbondioxide and -monoxid. No hazardous decomposition products if used and stored according to specifications.
· Additional information:	Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 · Acute toxicity Harmful if inhaled. · LD/LC50 values relevant for classification: 6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate LD50 3.200 mg/kg (rattus) Oral 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-hydroxy-4-methylpentan-2-one LD50 3.002 mg/kg (rattus) Oral 102-82-9 tributylamine LD50 540 mg/kg (rattus) Oral Dermal LD50 250 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 Based on available data, the classification criteria are not met. · Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. · 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.

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List II

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· 11.2 Information on other hazards

· Endocrine disrupting properties

78-93-3 butanone

S	ECTION 12: Ecological information
· 1:	2.1 Toxicity
· /	Aquatic toxicity:
1:	338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane
L	C50 / 96h 44,2 mg/l (-)
78	8-93-3 butanone
L	C50 / 96h 3.220 mg/l (pimephales promelas)
Е	C50 / 48h 5.091 mg/l (daphnia magna)
12.2 Persistence and degradability Degree of elimination:	
· Classification:	
6	846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate
D	egradation (Readily biodegradable, failing 10-d wind) (OECD 301 B)
1:	338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane
D	Degradation (Readily biodegradable) (OECD 301 B)
1:	23-42-2 4-hydroxy-4-methylpentan-2-one
D	Degradation (Readily biodegradable) (OECD 301 A)
78	8-93-3 butanone
D	Degradation (Readily biodegradable) (OECD 301 D)
7	722-84-1 hydrogen peroxide solution
D	Degradation (Readily biodegradable)

Degradation (Readily biodegradable) (OECD 301 B) • 12.3 Bioaccumulative potential

102-82-9 tributylamine

Partition coefficient: nOctanol/water: [Log Kow]

Fartition		
1338-23-4	Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	2,04 (25°C)
123-42-2	4-hydroxy-4-methylpentan-2-one	-0,09 (20°C)
78-93-3	butanone	0,3 (40°C)
7722-84-1	hydrogen peroxide solution	-1,57 (20°C)
102-82-9	tributylamine	3,34 (25 °C)
· Bioconcentration factor (BCF)		
6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate		
BCF 183-194 (piscis)		
102-82-9 tributylamine		

BCF 7,3

DUF 1,3	
· 12.4 Mobility in soil	No further relevant information available.
12.5 Results of PBT and vPvB as	ssessment
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
 12.6 Endocrine disrupting 	
properties	For information on endocrine disrupting properties see section 11.
 12.7 Other adverse effects 	
· Remark:	Harmful to fish
 Additional ecological information 	on:
· General notes:	Must not reach sewage water or drainage ditch undiluted or unneutralised. Harmful to aquatic organisms
	Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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13.1 Waste treatment methods	
Recommendation	After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a spectreatment (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.
SECTION 14: Transport infor	mation
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 PEROXIDÈ TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
14.3 Transport hazard class(es)	
ADR	
<u> </u>	
· Class · Label	5.2 (P1) Organic peroxides. 5.2
IMDG, IATA	
· Class · Label	5.2 Organic peroxides. 5.2
14.4 Packing group	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for use • Hazard identification number (I	
Stowage Category	D
Stowage Code Segregation Code	SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG72 See 7.2.6.3.2.
14.7 Maritime transport in bulk a	ccording to IMO instruments Not applicable.
Transport/Additional informatio	
· 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

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	(Contd. of page
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
SECTION 15: Regulatory information	
· 15.1 Safety, health and environmental reg	ulations/legislation specific for the substance or mixture
· Directive 2012/18/EU	
Named dangerous substances	
	the ingredients is listed. F-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
• Seveso category P6b SEL • Qualifying quantity (tonnes) for	REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
the application of lower-tier	
requirements 50 t	
Qualifying quantity (tonnes) for	
the application of upper-tier	
requirements 200 t	
REGULATION (EC) No 1907/2006 ANNEX XVII Condition	ns of restriction: 3
	······································
II	n 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 on drug pr	ecursors
78-93-3 butanone	3
	n rules for the monitoring of trade between the Community and third countries in drug
precursors	

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,	·
· Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
· Version number of previous	
version:	10
version: • 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) IMDG: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial 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. Liq, 2: Flammable liquids – Category 2 Flam. Liq, 3: Flammable liquids – Category 3 Ox. Liq, 1: Oxidizing liquids – Category 4 Acute Tox, 3: Acute toxicity – Category 4 Acute Tox, 3: Acute toxicity – Category 1 Skin Corr. 14: Skin corrosion/irritation – Category 11 Skin Corr. 14: Skin corrosion/irritation – Category 18 Skin Irrit. 2: Skin corrosion/irritation – Category 1 Skin Corr. 15: Skin corrosion/irritation – Category 1 Skin Corr. 16: Skin corrosion/irritation – Category 1 Skin Corr. 16: Skin corrosion/irritation – Category 1 Skin Corr. 17: Skin corrosion/irritation – Category 1 Skin Corr. 18: Skin corrosion/irritation – Category 1 Skin Corr. 19: Skin corrosion/irritation – Category 1
	Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Repr. 2: Reproductive toxicity – Category 2
	STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
* Data compared to the previous version altered.	