

Printing date 11.12.2023 Version: 5 (replaces version 4) Revision: 16.02.2023

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

· 1.1 Product identifier

PEROXAN ME-60 LX · 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: Qualified person: E-mail: msds@pergan.com

1.4 Emergency telephone

number: - Tel: +49 2871 9902-0

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

H242 Heating may cause a fire. Org. Perox. D Acute Tox. 4 H332 Harmful if inhaled.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. Eve Dam. 1

H361d Suspected of damaging the unborn child. Repr. 2 Aguatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008

Hazard pictograms

The product is classified and labelled according to the CLP regulation.



· Signal word Danger

· Hazard-determining

Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane components of labelling:

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

4-hydroxy-4-methylpentan-2-one hydrogen peroxide solution H242 Heating may cause a fire.

· Hazard statements H332 Harmful if inhaled.

> H314 Causes severe skin burns and eye damage. H361d Suspected of damaging the unborn child. H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

P220 Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and

accelerators (e. g. heavy metal compounds and amines).

P234 Keep only in original packaging.

P243 Take action to prevent static discharges.

P264 Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection/hearing P280 protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower]

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.

P420 Store separately.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

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· 2.3 Other hazards

- · Results of PBT and vPvB assessment
- ▶ PBT: The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
 ▶ vPvB: The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Determination of endocrine-disrupting properties

78-93-3 butanone List II

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

CAS: 6846-50-0	1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	40-50%
EINECS: 229-934-9 Reg-No.: 01-2119451093-47	Repr. 2, H361d; Aquatic Chronic 3, H412	
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	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%
	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: $C \ge 70$ % Skin Corr. 1B; H314: 50 % ≤ 50 C < 50 % Skin Irrit. 2; H315: 50 % ≤ 50 C < 50 % Eye Dam. 1; H318: 50 S < 50 C < 50 % Eye Irrit. 2; H319: 50 S < 50 C < 50 % STOT SE 3; 50 C < 50 % Ox. Liq. 1; H271: 50 % ≤ 50 C < 50 % Ox. Liq. 2; H272: 50 % ≤ 50 C < 50 %	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%

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.

• After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms

persist.

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:
 Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms

and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special

treatment needed

No further relevant information available.

No further relevant information available.

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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

· Protective equipment: Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

· Additional information Cool endangered receptacles with water spray. Self-protection first!

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.

In case of further temperature should be cooled with waterspray from a safe distance.

Wear breathing apparatus with filter A during decomposition of materials.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

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.

Avoid shock and friction.



Do not smoke.

Information about fire - and explosion protection:

Protect from heat

Protect against electrostatic charges.

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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· 7.2 Conditions for safe storage, including any incompatibilities

· Storage: Requirements to be met by Pay attention to the special requirements of your local autorithies for storing dangerous goods.

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

5.2 Storage class:

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with	h limit values that	require monitoring at the workplace:
123-42-2 4-hydro	xy-4-methylpenta	n-2-one
WEL (Great Brita		ue: 362 mg/m³, 75 ppm ıe: 241 mg/m³, 50 ppm
78-93-3 butanon	е	
IOELV (EU) Short-term val Long-term valu		ue: 900 mg/m³, 300 ppm ıe: 600 mg/m³, 200 ppm
WEL (Great Brita		ue: 899 mg/m³, 300 ppm ue: 600 mg/m³, 200 ppm
7722-84-1 hydro	gen peroxide solı	ution
WEL (Great Britain) Short-term value		ue: 2,8 mg/m³, 2 ppm ue: 1,4 mg/m³, 1 ppm
· DNELs		
6846-50-0 1-isop	ropyl-2,2-dimethy	ultrimethylene diisobutyrate
Dermal DNEL	Longterm System	5 mg/kg bw/day (Worker)
Inhalative DNEL	Longterm System	17,62 mg/m3 (Worker)
		ne-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane
Dermal DNEL	Longterm System	1,43 mg/kg bw/day (Worker)
Inhalative DNEL	Acute Systemic	7,55 mg/m3
	,	2,52 mg/m3 (Worker)
	oxy-4-methylpenta	
		467 mg/kg bw/day (Worker)
		32,6 mg/m3 (Worker)
78-93-3 butanon	-	
	•	1.161 mg/kg bw/day (Worker)
		600 mg/m3 (Worker)
	gen peroxide solı	
Inhalative DNEL		1,4 mg/m3 (Worker)
102-82-9 tributyl		
Inhalative DNEL	•	10,6 mg/m3 (Worker)
		5,3 mg/m3 (Worker)
	Longterm Local	15,2 mg/m3 (Worker)
PNECs		
		rltrimethylene diisobutyrate
	er sed 0,529 mg/k	
PNEC Freshwate		
PNEC Freshwate	er sed 5,29 mg/kg	sed dw

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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 mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane PNEC Marinewater sed 0,009 mg/kg sed dw 0,006 mg/l (AF 1.000) PNEC Freshwater PNEC Freshwater sed 0,088 mg/kg sed dw PNFC Soil 0,014 mg/kg soil dw PNEC STP 1,2 mg/l (AF 10) 0,001 mg/l (AF 10.000) **PNEC Marinewater** 123-42-2 4-hydroxy-4-methylpentan-2-one PNEC Marinewater sed | 0,74 mg/kg sed dw 2 mg/l (AF 50) PNEC Freshwater 7,4 mg/kg sed dw PNEC Freshwater sed PNFC Soil 0,31 mg/kg soil dw PNEC STP 100 mg/l (AF 10) PNFC Marinewater 0,2 mg/l (AF 500) 7722-84-1 hydrogen peroxide solution PNEC Marinewater sed | 0,047 mg/kg sed dw **PNEC Freshwater** 0,013 mg/l (AF 50) PNEC Freshwater sed 0,047 mg/kg sed dw 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 tributylamine PNEC Marinewater sed 3,59 mg/kg sed dw **PNEC Freshwater** 0,008 mg/l (AF 1.000) PNEC Freshwater sed 35,85 mg/kg sed dw

· Ingredients with biological limit values:

78-93-3 butanone

PNEC Marinewater

PNEC Soil

PNEC STP

BMGV (Great Britain) 70 µmol/L

Medium: urine

Sampling time: post shift Parameter: butan-2-one

7,17 mg/kg soil dw

0,0008 mg/l (AF 10.000)

100 mg/l (AF 1)

• Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

· Appropriate engineering

controls No further data; see section 7.

 \cdot Individual protection measures, 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 contact with the eyes and skin. Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

Be sure to clean skin thoroughly after work and before breaks.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer

exposure use self-contained respiratory protective device.
Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.

Filter A2

· Hand protection Only use chemical-protective gloves with CE-labelling of category III.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Protective gloves

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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.

Butvl 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

Eye/face protection

Tightly sealed goggles

· Body protection:

Protective work clothing

SECTION 9: Physical and chemical properties

 9.1 Information on 	basic physical and	d chemical properties
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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 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 - 1,02 g/cm³ Relative density Not determined. · Vapour density Not determined.

· 9.2 Other information

· Appearance: · Form:

· 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

Fluid

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

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Self-heating substances and mixtures

· Substances and mixtures, which emit flammable gases in contact with water

· Oxidising liquids

· Oxidising solids

· Organic peroxides · Corrosive to metals

Desensitised explosives

Other safety characteristics

Active oxygen

Void

Void

Void Void

Heating may cause a fire.

Void Void

ca. 9,5 - 9,9 %

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 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

· 10.4 Conditions to avoid

· 10.5 Incompatible materials:

Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g.

No further relevant information available. heavy-metal compounds and amines).

Self-accelerating decomposition at SADT.

· 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) Dermal LD50 18.900 mg/kg (caviinae)

1338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane

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) Dermal LD50 250 mg/kg (cuniculosus)

Skin corrosion/irritation

· Serious eye damage/irritation

Respiratory or skin

sensitisation Germ cell mutagenicity Carcinogenicity

· Reproductive toxicity · STOT-single exposure · STOT-repeated exposure Aspiration hazard

Causes severe skin burns and eye damage. Causes serious eye damage.

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

Suspected of damaging the unborn child.

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

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· 11.2 Information on other hazards

· Endocrine disrupting properties

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-butylhexaoxidane

LC50 / 96h | 44,2 mg/l (-)

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)

1338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane

Degradation (Readily biodegradable) (OECD 301 B)

123-42-2 4-hydroxy-4-methylpentan-2-one

Degradation (Readily biodegradable) (OECD 301 A)

78-93-3 butanone

Degradation (Readily biodegradable) (OECD 301 D)

7722-84-1 hydrogen peroxide solution

Degradation (Readily biodegradable)

102-82-9 tributylamine

Degradation (Readily biodegradable) (OECD 301 B)

12.3 Bioaccumulative potential

· Partition	coefficient: nOctanol/water: [Log Kow]	
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

• 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

▶ 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:

• 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

svstem.

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SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation



After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage

· Waste disposal key: Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-

· Uncleaned packaging:

·IMDG

· Limited quantities (LQ)

· 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 PEROXIDÈ TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
14.3 Transport hazard class(es)	
· ADR	
32	
· Class	5.2 (P1) Organic peroxides.
· Label	5.2 (1.7) Organio perexides.
· IMDG, IATA	
32	
· Class	5.2 Organic peroxides.
· Label	5.2
14.4 Packing group	
· ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Hazard identification number (Kemler code):	Warning: Organic peroxides.
Stowage Category	- D
· Stowage Code	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.
14.7 Maritime transport in bulk according to IMO instru	ments Not applicable.
Transport/Additional information:	
· ADR	
Limited quantities (LQ)	125 ml
· Limited quantities (LQ) · Excepted quantities (EQ)	Code: E0
Excepted quantities (EQ)	
	Code: E0 Not permitted as Excepted Quantity

125 ml

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· Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

SECTION 15: Regulatory information

· 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 P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

· Qualifying quantity (tonnes) for the application of lower-tier 50 t requirements Qualifying quantity (tonnes) for the application of upper-tier 200 t

requirements **REGULATION (EC) No**

1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex Ш

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Regulation (EC) No 273/2004 on drug precursors

78-93-3 butanone

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries 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.

· Contact: Tel: +49 2871 9902-0 E-mail: mail@pergan.com

· Version number of previous version:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International · Abbreviations and acronyms:

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

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 1
Org. Perox. D: Organic peroxides – Type C/D
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 1: Acute toxicity – Category 3
Acute Tox. 1: Acute toxicity – Category 1
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
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
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 aqua

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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