

Printing date 11.12.2023 Version: 10 (replaces version 9) Revision: 16.02.2023

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

· 1.1 Product identifier

PEROXAN ME-50 LS-P 10 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 /

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

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.

Causes severe skin burns and eye damage.

H361d Suspected of damaging the unborn child. H412 Harmful to aquatic life with long lasting effects.

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

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.

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

Immediately call a POISON CENTER/doctor.

P310

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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Trade name: PEROXAN ME-50 LS-P 10 X

(Contd. of page 1) · Additional information: Product contains: Reportable explosives precursors. Making available, introduction, possession and use

according to Regulation (EU) 2019/1148, Article 9.

· 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

· 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	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 butanone EINECS: 201-159-0 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066 Reg-No.: 01-2119457290-43		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, H3 Aquatic Chronic 3, H412 Specific concentration limits: Skin Corr. 1A; H314: $C \ge 70$ % Skin Corr. 1B; H314: 50 % 50 % 50 % Skin Corr. 1B; H315: 50 % 50 % Eye Dam. 1; H318: 50 % Eye Irrit. 2; H319: 50 % 50 % STOT SE 3; 50 % Ox. Liq. 1; H271: 50 % 50 % Ox. Liq. 1; H271: 50 % 50 % Ox. Liq. 2; H272: 50 % 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%

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.

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

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.

Rinse opened eye for several minutes under running water. Then consult a doctor. · After eye contact: 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 No further relevant information available.

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· 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: 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

· Additional information

· Protective equipment: Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases. 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. Inform respective authorities in case of seepage into water course or sewage system.

· 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.

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.

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Fumes can combine with air to form an explosive mixture.



Wear shoes with conductive soles.



Avoid open flames, sparks, direct sunlight and other sources of ignition.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

Pay attention to the special requirements of your local autorithies for storing dangerous goods.

· Requirements to be met by

storerooms and receptacles:

Store only in the original receptacle.

Prevent any seepage into the ground.

Use only receptacles specifically permitted for this substance/product.

· Information about storage in

one common storage facility:

Do not store or park organic peroxide together with heavy metal compounds and amines.

Store away from foodstuffs, drinks and feeding stuffs.

· Further information about

storage conditions:

Keep container tightly sealed. 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

· Ingredier	nts with lir	mit values that	require monitoring at the workplace:
123-42-2	1-hydroxy	4-methylpenta	n-2-one
WEL (Gre	WEL (Great Britain) Short-term value: 362 mg/m³, 75 ppm Long-term value: 241 mg/m³, 50 ppm		
78-93-3 bi	utanone		3 · 11
IOELV (EU	J)	Short-term valu	ue: 900 mg/m³, 300 ppm
,	,	Long-term valu	e: 600 mg/m³, 200 ppm
WEL (Gre	at Britain)		ue: 899 mg/m³, 300 ppm ue: 600 mg/m³, 200 ppm
7722-84-1	hydrogen	peroxide solu	ıtion
WEL (Gre	at Britain)		ue: 2,8 mg/m³, 2 ppm ue: 1,4 mg/m³, 1 ppm
· DNELs			
6846-50-0	1-isoprop	yl-2,2-dimethy	Itrimethylene diisobutyrate
Dermal	DNEL Lor	ngterm System	5 mg/kg bw/day (Worker)
Inhalative DNEL Longterm System 17,62 mg/m3 (Worker)		17,62 mg/m3 (Worker)	
1338-23-4	Reaction	mass of butar	e-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane
Dermal	DNEL Lor	ngterm System	1,43 mg/kg bw/day (Worker)
Inhalative	DNEL Ac	ute Systemic	7,55 mg/m3
	DNEL Lor	ngterm System	2,52 mg/m3 (Worker)
123-42-2	1-hydroxy	4-methylpenta	n-2-one
Dermal	DNEL Lor	ngterm System	467 mg/kg bw/day (Worker)
Inhalative	DNEL Lor	ngterm System	32,6 mg/m3 (Worker)
78-93-3 b	utanone		
Dermal	DNEL Lor	ngterm System	1.161 mg/kg bw/day (Worker)
Inhalative	DNEL Lor	ngterm System	600 mg/m3 (Worker)
7722-84-1	hydrogen	peroxide solu	ition
Inhalative	DNEL Lor	ngterm Local	1,4 mg/m3 (Worker)
102-82-9 t			
Inhalative DNEL Ac		ute Systemic	10,6 mg/m3 (Worker)
	DNEL Lor	ngterm System	5,3 mg/m3 (Worker)
			(Contd. on page

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I SNIEL I		td. of page 4	
	gterm Local 15,2 mg/m3 (Worker)		
PNECs			
	yl-2,2-dimethyltrimethylene diisobutyrate		
PNEC Marinewater sec	ter sed 0,529 mg/kg sed dw (-)		
PNEC Freshwater	0,014 mg/l (AF 50)		
PNEC Freshwater sed	d 5,29 mg/kg sed dw		
PNEC Soil	1,05 mg/kg soil dw		
PNEC STP	3 mg/l (AF 10)		
PNEC Marinewater	0,001 mg/l (AF 500)		
	mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane		
	ed 0,009 mg/kg sed dw		
PNEC Freshwater	0,006 mg/l (AF 1.000)		
PNEC Freshwater sed	[-, 3-3		
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)		
	4-methylpentan-2-one		
PNEC Marinewater sec			
PNEC Freshwater	2 mg/l (AF 50)		
PNEC Freshwater sed	, 3 3		
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	•		
	ed 0,047 mg/kg sed dw		
PNEC Freshwater	0,013 mg/l (AF 50)		
PNEC Freshwater sed	3.3		
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			
PNEC Marinewater sec			
PNEC Freshwater	0,008 mg/l (AF 1.000)		
	C 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)			
	iological limit values:		
78-93-3 butanone			
BMGV (Great Britain) 70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one			
 Additional informati 	ition: The lists valid during the making were used as basis.		

· 8.2 Exposure controls Appropriate engineering

controls No further data; see section 7.

· 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.

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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 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:

· Material of gloves



Protective work clothing

SECTION 9: Physical 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 Not applicable. · Flammability May cause fire.

Lower and upper explosion limit

· Lower: Not determined. Not determined. · Upper: > SADT · Flash point:

> +60 °C (SADT) · Decomposition temperature: Not determined.

· Viscosity:

Kinematic viscosity

· Dynamic: · Solubility

· Partition coefficient n-octanol/water (log value) · Vapour pressure:

· Density and/or relative density

Density at 20 °C: Relative density · Vapour density

· 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

Not determined. Not determined.

Undetermined.

not determined Not determined.

Not determined.

1,01 - 1,02 g/cm³

Not determined.

Not determined.

mixtures are possible. · Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

 Explosives Void Flammable gases Void

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· 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

· 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 ca. 9,5 - 9,9 %

SECTION 10: Stability and reactivity

No further relevant information available. · 10.1 Reactivity

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

Self-accelerating decomposition at SADT. No further relevant information available.

10.4 Conditions to avoid · 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	rolovant for	classification:
LD/LC30 Values	I CIC VAIIL IOI	Ciassilication.

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)

102-82-9 tributylamine

LD50 540 mg/kg (rattus) Dermal LD50 250 mg/kg (cuniculosus)

· Skin corrosion/irritation Causes severe skin burns and eye damage.

· Serious eye damage/irritation

· Respiratory or skin

Causes serious eye damage.

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.

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• STOT-repeated exposure
• Aspiration hazard

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

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

· 11.2 Information on other hazards

· Endocrine disrupting properties

11.2 information of other nazards

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:

CI	20	eifi	cat	ior	٠.

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	· 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

system.

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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 system

system

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

number.

· Uncleaned packaging:

· IMDG

· Limited quantities (LQ)

• Recommendation: This material and its container must be disposed of as hazardous waste.

The material and its	container must be disposed of as nazardous waste.
SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3105
· 14.2 UN proper shipping name · ADR · IMDG, IATA	UN3105 ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S)) 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
· IMDG, IATA	5.0 Owner's manual day
· 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 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.
\cdot 14.7 Maritime transport in bulk according to IMO inst	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

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

· 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

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

precursors

78-93-3 butanone

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.

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

· Version number of previous

· 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 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. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: 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

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 Aguatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* Data compared to the previous version altered.

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