

Printing date 29.06.2023 Version: 4 (replaces version 3) Revision: 26.06.2023

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

· 1.1 Product identifier

PEROXAN ME-50 LM4 · 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

Environment protection / Security of labour

Competent person:

* Sales Manager Germany: Mr. Ansgar Pappenheim, e-mail: a.pappenheim@pergan.com * Export Sales Manager: Mr. Dr. Thomas Philipps, e-mail: dr.philipps@pergan.com * Environment protection / : Mr. Christoph Wilting, e-mail: c.wilting@pergan.com

Security of labour

1.4 Emergency telephone

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 eve damage.

Eve Dam. 1 H318 Causes serious eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction. Muta. 2 H341 Suspected of causing genetic defects. Carc. 2 H351 Suspected of causing cancer.

Aguatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Danger

2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008

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

Hazard pictograms



· Signal word

· Hazard-determining

· Hazard statements

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

tert-butyl hydroperoxide hydrogen peroxide solution H242 Heating may cause a fire. H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

P310

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

smoking.

P234 Keep only in original packaging. P264 Wash thoroughly after handling. P273 Avoid release to the environment.

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

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

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.

P405 Store locked up. P410 Protect from sunlight.

(Contd. on page 2)



(Contd. of page 1)

Printing date 29.06.2023 Version: 4 (replaces version 3) Revision: 26.06.2023

Trade name: PEROXAN ME-50 LM4

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.

· 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 UK REACH, annex XIII.
• vPvB: The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

Dangerous components:		
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: 75-91-2 EINECS: 200-915-7 Reg-No.: 01-2119446670-40	tert-butyl hydroperoxide Flam. Liq. 3, H226; Org. Perox. F, H242; Acute Tox. 3, H311; Acute Tox. 2, H330; Muta. 2, H341; Carc. 2, H351; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317 Specific concentration limits: Eye Dam. 1; H318: C ≥ 1 % Skin Sens. 1; H317: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	2.5-5%
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 % 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 %	1-2.5%
CAS: 107-41-5 EINECS: 203-489-0 Index number: 603-053-00-3 Reg-No.: 01-2119539582-35	2-methylpentane-2,4-diol Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-2.5%
· 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 and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Take affected persons into fresh air and keep quiet.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

Immediately remove contaminated clothing.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

• After swallowing: Call for a doctor immediately.

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

 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

(Contd. on page 3)

- GB -



Printing date 29.06.2023 Version: 4 (replaces version 3) Revision: 26.06.2023

Trade name: PEROXAN ME-50 LM4

(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

Protective equipment:
Additional information

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.

· 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.

Open and handle receptacle with care.

Prevent formation of aerosols.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Do not refill residue into storage receptacles. Restrict the quantity stored at the work place.

Before break and at the end of work hands should be thoroughly washed.

Only use tools made of suitable materials (e. g. polyethylene or stainless steel).

Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-

metal compounds and amines).

While using do not eat, drink or smoke. Do not generate flames or sparks.

Keep product and emptied container away from heat and sources of ignition.

Avoid shock and friction.

Take precautionary measures against static discharges.



Do not smoke.

· Information about fire - and explosion protection:

Protect from heat.

Protect against electrostatic charges.

Prevent impact and friction.

Use explosion-proof apparatus / fittings and spark-proof tools. Fumes can combine with air to form an explosive mixture.

We We

Wear shoes with conductive soles.

Formation of flammable or explosive gas/air-mixtures is possible.



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

(Contd. on page 4)



Printing date 29.06.2023 Version: 4 (replaces version 3) Revision: 26.06.2023

Trade name: PEROXAN ME-50 LM4

Keep ignition sources away - Do not smoke.

(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 goods.

Requirements to be met by

storerooms and receptacles: Store only in the original receptacle.

Prevent any seepage into the ground.

Use only receptacles specifically permitted for this substance/product.

· Information about storage in

one common storage facility:

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

Store away from foodstuffs, drinks and feeding stuffs.

· Further information about

storage conditions:

Keep container tightly sealed. Protect from heat and direct sunlight. Protect from contamination.

Store under lock and key and out of the reach of children.

Storage in a collecting room is required.

Recommended storage temperature (To maintain

quality):

0 +30 °C

Storage class:

PNEC Seawater

0 mg/l (AF 10.000)

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters					
· Ingredier	gredients with limit values that require monitoring at the workplace:				
7722-84-1	hydrogen p	eroxide solu	oxide solution		
WEL (Gre			ue: 2.8 mg/m³, 2 ppm		
	Long-term value: 1.4 mg/m³, 1 ppm				
	2-methylpent				
WEL (Gre			ie: 123 mg/m³, 25 ppm e: 123 mg/m³, 25 ppm		
· DNELs					
1338-23-4	Reaction ma	ass of butan	e-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane		
Dermal	DNEL Longt	erm System	1.43 mg/kg bw/day (Worker)		
Inhalative	DNEL Acute	Systemic	7.55 mg/m3		
	DNEL Longt	erm System	2.52 mg/m3 (Worker)		
75-91-2 te	rt-butyl hydr	operoxide			
Dermal	DNEL Longt	erm System	0.21 mg/kg bw/day (Worker)		
Inhalative	DNEL Acute	Systemic	85.2 mg/m3 (Worker)		
	DNEL Acute	Local	28.4 mg/m3 (Worker)		
	_	•	2.2 mg/m3 (Worker)		
	DNEL Longt		0.58 mg/m3 (Worker)		
7722-84-1 hydrogen peroxide solution					
Inhalative DNEL Longterm Local 1.4 mg/m3 (Worker)		<u> </u>			
107-41-5 2	2-methylpent				
			42 mg/kg bw/day (Worker)		
Inhalative	DNEL Longt	erm System	44.4 mg/m3 (Worker)		
PNECs					
1338-23-4	Reaction ma	ass of butan	e-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane		
PNEC Marinewater sed 0.009 mg/kg sed dw		g sed dw			
PNEC Fre	shwater	0.006 mg/l	(AF 1.000)		
PNEC Soil 0.014 mg/k		0.088 mg/k	g sed dw		
		0.014 mg/k	g soil dw		
		1.2 mg/l (A	F 10)		
PNEC Marinewater 0.001 mg/l (AF 10.000)		(AF 10.000)			
	rt-butyl hydr				
PNEC Marinewater sed 0.001 mg/kg sed dw					
PNEC Fre	shwater	0.002 mg/l	(AF 1.000)		

(Contd. on page 5)



(Contd. of page 4)

Printing date 29.06.2023 Version: 4 (replaces version 3) Revision: 26.06.2023

Trade name: PEROXAN ME-50 LM4

PNEC Freshwater sed PNEC Soil 0.006 mg/kg sed dw (-) 0.166 mg/kg soil dw (AF 1.000)

PNEC STP 0.17 mg/l (AF 100)

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 PNEC Soil 0.002 mg/kg soil dw PNEC STP 4.66 mg/l (AF 100)
PNEC Marinewater 0.047 mg/kg sed dw 0.047 mg/kg sed dw 4.66 mg/l (AF 100)

107-41-5 2-methylpentane-2,4-diol

· 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.

· 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 close or long term contact with the skin.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection.

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

Respiratory protection:

Not necessary if room is well-ventilated.

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 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

- 9.1 Information on basic physical and chemical properties
- · General Information
- · Colouriess Colourless

(Contd. on page 6)



Printing date 29.06.2023 Version: 4 (replaces version 3) Revision: 26.06.2023

Trade name: PEROXAN ME-50 LM4

(Contd. of page 5)

	(10
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not applicable.
Boiling point or initial boiling point and boiling range	Not applicable.
Flammability	Not applicable.
Lower and upper explosion limit	••
· Lower:	Not determined.
· Upper:	Not determined.
Flash point:	> SADT
	Not determined.
Decomposition temperature:	+60 °C (SADT)
pH	Not determined.
· Viscosity:	
Kinematic viscosity	Not determined.
Dynamic at 20 °C:	24 mPas
Solubility	
· water:	Undetermined.
Partition coefficient n-octanol/water (log value)	not determined
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.12 g/cm³
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
	V

Void

Void

Void

Void

Void

Void

Void

Void

8.9 - 9.4 %

Heating may cause a fire.

SECTION 10: Stability and reactivity

· Self-heating substances and mixtures

· Substances and mixtures, which emit flammable gases in

· 10.1 Reactivity

· 10.2 Chemical stability

· Pyrophoric liquids

· Pyrophoric solids

contact with water

Oxidising liquids

· Organic peroxides

· Corrosive to metals

· Desensitised explosives

· Other safety characteristics

Oxidising solids

Active oxygen

Thermal decomposition / conditions to be avoided:

No further relevant information available.

SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause decomposition at and above the temperature. Contact with incompatible substances can cause decomposition at or below the SADT.

No decomposition if used and stored according to specifications.

(Contd. on page 7)



Printing date 29.06.2023 Version: 4 (replaces version 3) Revision: 26.06.2023

Trade name: PEROXAN ME-50 LM4

To avoid thermal decomposition do not overheat.

(Contd. of page 6)

· 10.3 Possibility of hazardous

reactions

· 10.4 Conditions to avoid

Self-accelerating decomposition at SADT. 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:

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

Oral LD50 1,017 mg/kg (rattus)

75-91-2 tert-butyl hydroperoxide					
Oral	LD50	805 mg/kg /(70%) (rattus)			
Dermal	LD50	633 mg/kg /(70%) (cuniculosus)			
Inhalative	LC50 / 4h	1.2 mg/l /(70%) (rattus)			

107-41-5 2-methylpentane-2,4-diol

Oral	LD50	>2,000 mg/kg (rattus)
Dermal	LD50	>2,000 mg/kg (cuniculosus)

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

· Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction. Suspected of causing genetic defects.

Germ cell mutagenicity Carcinogenicity

Suspected of causing cancer.

· Reproductive toxicity · STOT-single exposure · 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. 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

None of the ingredients is listed.

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 (-)

75-91-2 tert-butyl hydroperoxide

EC50 / 72h | 2.1 mg/l /(70%) (selenastrum capricornutum) LC50 / 96h 42.3 mg/l /(70%) (pimephales promelas) 24.3 mg/l /(70%) (activa sludge)

EC50 / 48h | 20 mg/l /(70%) (daphnia magna)

107-41-5 2-methylpentane-2,4-diol

LC50 / 96h 8,510 mg/l (gambusia affinis)

12.2 Persistence and degradability

Degree of elimination:

· Classification:

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

Degradation (Readily biodegradable) (OECD 301 B)

75-91-2 tert-butyl hydroperoxide

Degradation (Not readily biodegradable) (OECD 301 D)

(Contd. on page 8)



Printing date 29.06.2023 Version: 4 (replaces version 3) Revision: 26.06.2023

Trade name: PEROXAN ME-50 LM4

(Contd. of page 7) 7722-84-1 hydrogen peroxide solution Degradation (Readily biodegradable) 107-41-5 2-methylpentane-2,4-diol Degradation (Readily biodegradable) (OECD 301 F)

· 12 3 Bioaccumulative notential

12.3 Dioac	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)				
75-91-2	tert-butyl hydroperoxide	0,85 (30 °C)				
7722-84-1	hydrogen peroxide solution	-1,57 (20°C)				
107-41-5	2-methylpentane-2,4-diol	< 1				
110-05-4	di-tert-butyl peroxide	3,2 (22°C)				

· 12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII. · PBT: · vPvB: The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.

12.6 Endocrine disrupting

properties The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

· Additional ecological information:

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: 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.

· 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 information

· 14.1 UN number or ID number

· ADR, IMDG, IATA UN3105

· 14.2 UN proper shipping name

UN3105 ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL · ADR

KETONE PEROXIDE(S))

ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE · IMDG, IATA

PEROXIDE(S))

· 14.3 Transport hazard class(es)

· ADR



5.2 (P1) Organic peroxides. 5.2

· Label

IMDG. IATA



Class 5.2 Organic peroxides.

· Label 5.2

(Contd. on page 9)



Printing date 29.06.2023 Version: 4 (replaces version 3) Revision: 26.06.2023

Trade name: PEROXAN ME-50 LM4

· 14.4 Packing group
· ADR, IMDG, IATA Void

· ADR, IMDG, IATA Void
· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Warning: Organic peroxides.

Hazard identification number (Kemler code): 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 instruments Not applicable.

· Transport/Additional information:

Limited quantities (LQ) 125 ml Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

Transport category
Tunnel restriction code

· RID / GGVSEB: like ADR

·IMDG

· Limited quantities (LQ) 125 ml · 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.

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

 Qualifying quantity (tonnes) for the application of upper-tier requirements

200 t

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

None of the ingredients is listed.

· 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

None of the ingredients is listed.

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

None of the ingredients is listed.

- · National regulations:
- Other regulations, limitations and prohibitive regulations
- Please note: Take care of the respective local regulations.

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.

• Relevant phrases H226 Flammable liquid and vapour.

H242 Heating may cause a fire.

(Contd. on page 10)



Printing date 29.06.2023 Version: 4 (replaces version 3) Revision: 26.06.2023

Trade name: PEROXAN ME-50 LM4

(Contd. of page 9)

H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

Department issuing SDS:

Environment protection / Security of labour

Contact:

Tel: +49 2871 9902-0

E-mail: mail@pergan.com

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation

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

Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals

GNS. Globally harmfullest System to Classification and Labeling of Criefinica 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 (UK REACH)
PNEC: Predicted No-Effect Concentration (UK 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. 3: Flammable liquids – Category 3
Ox. Liq. 1: Oxidizing liquids – Category 1
Org. Perox. D: Organic peroxides – Type C/D
Org. Perox. F: Organic peroxides – Type E/F
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2 Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

* Data compared to the previous version altered.

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