

Printing date 02.01.2024 Version: 9 (replaces version 8) Revision: 16.02.2023

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

· 1.1 Product identifier

• Trade name: PEROXAN ME-50 LA3 X

· 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

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

· Labelling according to

Regulation (EC) No 1272/2008

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

Hazard pictograms



· Signal word Danger

· Hazard-determining

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

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

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

Hazard statements H242 Heating may cause a fire 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

smokina

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.
P273 Avoid release to the environment.

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 Immediately call a POISON CEN P405 Store locked up

P405 Store locked up. P410 Protect from sunlight.

P411 Store at temperatures not exceeding +30°C.

P420 Store separately.

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

regulations.

(Contd. on page 2)



Printing date 02.01.2024 Version: 9 (replaces version 8) Revision: 16.02.2023

## Trade name: PEROXAN ME-50 LA3 X

(Contd. of page 1)

#### · 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	1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	40-50%
EINECS: 229-934-9 Reg-No.: 01-2119451093-47	Repr. 2, H361d; Aquatic Chronic 3, H412	40-507
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 ndex 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 ndex 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 ndex 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 %	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

**delayed**No further relevant information available. **4.3 Indication of any immediate** 

medical attention and special treatment needed

No further relevant information available.

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Printing date 02.01.2024 Version: 9 (replaces version 8) Revision: 16.02.2023

Trade name: PEROXAN ME-50 LA3 X

(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

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.

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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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.

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.

(Contd. on page 4)



Printing date 02.01.2024 Version: 9 (replaces version 8) Revision: 16.02.2023

## Trade name: PEROXAN ME-50 LA3 X

(Contd. of page 3)

· 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 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 lim	it values that	require monitoring at the workplace:		
			<u> </u>		
	123-42-2 4-hydroxy-4-methylpentan-2-one WEL (Great Britain)   Short-term value: 362 mg/m³, 75 ppm				
`	´ L	ong-term valu	e: 241 mg/m³, 50 ppm		
78-93-3 bu					
IOELV (EU			ie: 900 mg/m³, 300 ppm		
\\/\T\_/\O		•	ue: 600 mg/m³, 200 ppm		
WEL (Great	at Britain) S	ong-term valu	ort-term value: 899 mg/m³, 300 ppm ng-term value: 600 mg/m³, 200 ppm		
		sk, BMGV			
7722-84-1	hydrogen	peroxide solu	tion		
WEL (Great			ue: 2,8 mg/m³, 2 ppm		
	L	ong-term valu	e: 1,4 mg/m³, 1 ppm		
·DNELs					
			ltrimethylene diisobutyrate		
	_	•	5 mg/kg bw/day (Worker)		
	_	•	17,62 mg/m3 (Worker)		
			e-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane		
	_	•	1,43 mg/kg bw/day (Worker)		
Inhalative	DNEL Acut	,	7,55 mg/m3		
	_	•	2,52 mg/m3 (Worker)		
		-methylpenta			
	_	•	467 mg/kg bw/day (Worker)		
Inhalative DNEL Longterm System 32,6 mg/m3 (Worker)  78-93-3 butanone					
		torm System	1.161 mg/kg bw/day (Worker)		
	_	•	600 mg/m3 (Worker)		
	_	peroxide solu			
	DNEL Long		1,4 mg/m3 (Worker)		
	ributylamin		-, · · · · · · · · · · · · · · · · · · ·		
	DNEL Acut		10,6 mg/m3 (Worker)		
		•	5,3 mg/m3 (Worker)		
	DNEL Long	•	15,2 mg/m3 (Worker)		
·PNECs					
6846-50-0	1-isopropy	1-2,2-dimethy	Itrimethylene diisobutyrate		
		d 0,529 mg/k	•		
	PNEC Freshwater 0,014 mg/l (AF 50)				
PNEC Fre	PNEC Freshwater sed 5,29 mg/kg sed dw				

(Contd. on page 5)



Printing date 02.01.2024 Version: 9 (replaces version 8) Revision: 16.02.2023

## Trade name: PEROXAN ME-50 LA3 X

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 PNEC Freshwater 0,009 mg/kg sed dw 0,006 mg/l (AF 1.000) 0,088 mg/kg sed dw 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-methylpentan-2-one

PNEC Marinewater sed | 0,74 mg/kg sed dw | PNEC Freshwater | 2 mg/l (AF 50) | 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 peroxide solution

PNEC Marinewater sed PNEC Freshwater Sed PNEC Freshwater Sed PNEC Soil PNEC STP PNEC Marinewater 9,013 mg/l (AF 50) 0,047 mg/kg sed dw 0,043 mg/l (AF 50)

#### 102-82-9 tributylamine

PNEC Marinewater sed PNEC Freshwater sed PNEC Freshwater sed PNEC Soil PNEC STP STP PNEC Marinewater 9,0008 mg/l (AF 1.000) 35,85 mg/kg sed dw 7,17 mg/kg soil dw 100 mg/l (AF 1) PNEC Marinewater 0,0008 mg/l (AF 10.000)

### · Ingredients with biological limit values:

#### 78-93-3 butanone

BMGV (Great Britain) 70 µmol/L

Medium: urine

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

• 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 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

(Contd. on page 6)



Printing date 02.01.2024 Version: 9 (replaces version 8) Revision: 16.02.2023

## Trade name: PEROXAN ME-50 LA3 X

(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

Mixture is non-soluble (in water).

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

· 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 · Viscosity:

· Kinematic viscosity Not determined. Dynamic: Not determined.

Solubility

· water: Undetermined. · Partition coefficient n-octanol/water (log value) not determined Not determined.

· Vapour pressure:

· Density and/or relative density Density at 20 °C: 0,99 - 1,01 g/cm3 Relative density Not determined. Vapour density Not determined.

9.2 Other information

Appearance:

Fluid · 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

Void

mixtures are possible. · Change in condition

Not determined. · Evaporation rate

· Information with regard to physical hazard classes · Explosives Void · Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void

Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void Pyrophoric solids Void

· Self-heating substances and mixtures

(Contd. on page 7)



Printing date 02.01.2024 Version: 9 (replaces version 8) Revision: 16.02.2023

# Trade name: PEROXAN ME-50 LA3 X

(Contd. of page 6)

· 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 8,0 - 8,4 %

#### **SECTION 10: Stability and reactivity**

• 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability · Thermal decomposition /

conditions to be avoided: SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating

decomposition may occur with substance in the packaging as used in transport. A dangerous 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

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 valu	ues relevant for	classification:
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#### 6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Oral LD50 3.200 mg/kg (rattus)
Dermal LD50 18.900 mg/kg (caviinae)

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

Oral LD50 1.017 mg/kg (rattus)

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

Oral LD50 3.002 mg/kg (rattus)

#### 102-82-9 tributylamine

Oral 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 Causes serious eye damage.

· Respiratory or skin

sensitisation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

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.

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.

11.2 Information on other hazards

· Endocrine disrupting properties

78-93-3 butanone List II

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Printing date 02.01.2024 Version: 9 (replaces version 8) Revision: 16.02.2023

## Trade name: PEROXAN ME-50 LA3 X

(Contd. of page 7)

#### **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:

· C	lass	ifica	ation:
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#### 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

12.4 Mobility in soil

BCF 7,3

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: Harmful to aquatic organisms

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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.

### **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.

(Contd. on page 9)



Printing date 02.01.2024 Version: 9 (replaces version 8) Revision: 16.02.2023

## Trade name: PEROXAN ME-50 LA3 X

(Contd. of page 8)

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

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

KETONE PEROXIDE(S))

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

PEROXIDE(S))

· 14.3 Transport hazard class(es)

· ADR



Class 5.2 (P1) Organic peroxides. 5.2

· Label

· IMDG, IATA



· 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 Warning: Organic peroxides.

· Hazard identification number (Kemler code): · Stowage Category

· 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: F0

Not permitted as Excepted Quantity

· Transport category D 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.

· Seveso category P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

(Contd. on page 10)



(Contd. of page 9)

3

3

Printing date 02.01.2024 Version: 9 (replaces version 8) Revision: 16.02.2023

## Trade name: PEROXAN ME-50 LA3 X

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

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

78-93-3 butanone

#### **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

8

· Version number of previous

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 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 Bioaccumulatir 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 1 Skin Corr 10: Skin correspondiration.

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 aquatic hazard - Category 3

\* \* Data compared to the previous version altered.