

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 M64 A1 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.

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

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Repr. 2 H361d Suspected of damaging the unborn child.

STOT SE 3 H335 May cause respiratory irritation.

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

4-hydroxy-4-methylpentan-2-one 2,4-Pentanedione, peroxide

 $\hbox{1--isopropyl-2,2-dimethyltrimethylene diisobutyrate}\\$

Hazard statements H242 Heating may cause a fire.

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H361d Suspected of damaging the unborn child.

H335 May cause respiratory irritation.

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.
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.

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.

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(Contd. of page 1) Dispose of contents/container in accordance with local/regional/national/international

P501

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: 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 %	30-40%
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	20-25%
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	20-25%
CAS: 37187-22-7 EINECS: 253-384-9 Reg-No.: 01-2119965139-28	2,4-Pentanedione, peroxide Alternative CAS number: 13784-51-5 Org. Perox. D, H242; Eye Irrit. 2, H319; Skin Sens. 1, H317	5-10%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg-No.: 01-2119457290-43	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	1-5%
CAS: 7722-84-1 EINECS: 231-765-0 Index number: 008-003-00-9 Reg-No.: 01-2119485845-22	hydrogen peroxide solution Ox. Liq. 1, H271; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 70 %	1-5%
CAS: 123-54-6 EINECS: 204-634-0 Index number: 606-029-00-0 Reg-No.: 01-2119458968-15	pentane-2,4-dione Flam. Liq. 3, H226; Acute Tox. 3, H311; Acute Tox. 3, H331; Acute Tox. 4, H302	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 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.

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 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

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:

<u>Inform</u> 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

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.

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Fumes can combine with air to form an explosive mixture.

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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 li	mit values that	require monitoring at the workplace:	
123-42-2	l-hydroxy	-4-methylpenta	n-2-one	
WEL (Great Britain) Short-term valu Long-term valu			ne: 362 mg/m³, 75 ppm e: 241 mg/m³, 50 ppm	
78-93-3 bi	utanone			
IOELV (El	٦)		ne: 900 mg/m³, 300 ppm e: 600 mg/m³, 200 ppm	
Long-t			hort-term value: 899 mg/m³, 300 ppm ong-term value: 600 mg/m³, 200 ppm k. BMGV	
7722-84-1	hydroger	peroxide solu	tion	
WEL (Great Britain) Short-term value: 2,8 mg/m³, 2 ppm Long-term value: 1,4 mg/m³, 1 ppm				
· DNELs				
123-42-2	I-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)	
		-	Itrimethylene diisobutyrate	
Dermal	DNEL Lor	ngterm System	5 mg/kg bw/day (Worker)	
Inhalative	DNEL Lor	ngterm System	17,62 mg/m3 (Worker)	
1338-23-4	Reaction	mass of butan	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 Lo	ngterm System	2,52 mg/m3 (Worker)	
37187-22-	7 2,4-Pent	tanedione, per	oxide	
Dermal	DNEL Lor	ngterm System	5 mg/kg bw/day (Worker)	
Inhalative	DNEL Lor	ngterm System	4,41 mg/m3 (Worker)	
78-93-3 bi	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	hydroger	peroxide solu	tion	
Inhalative	DNEL Lor	ngterm Local	1,4 mg/m3 (Worker)	
			(Contd. on page	

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	(Contd. of pag
123-54-6 pentane-2,4	
	term System 12 mg/kg bw/day (Worker)
	term System 84 mg/m3 (Worker)
· PNECs	
123-42-2 4-hydroxy-4	methylpentan-2-one
PNEC Marinewater se	
PNEC Freshwater	2 mg/l (AF 50)
PNEC Freshwater sec	
PNEC Soil	0,31 mg/kg soil dw
PNEC STP	100 mg/l (AF 10)
PNEC Marinewater	0,2 mg/l (AF 500)
	I-2,2-dimethyltrimethylene diisobutyrate
PNEC Marinewater se	d 0,529 mg/kg sed dw (-)
PNEC Freshwater	0,014 mg/l (AF 50)
PNEC Freshwater sec	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)
	nass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane
PNEC Marinewater se	d 0,009 mg/kg sed dw
PNEC Freshwater	0,006 mg/l (AF 1.000)
PNEC Freshwater sec	0,088 mg/kg sed dw
PNEC Soil	0,014 mg/kg soil dw
PNEC STP	1,2 mg/l (AF 10)
PNEC Marinewater	0,001 mg/l (AF 10.000)
37187-22-7 2,4-Penta	
	d 0,153 mg/kg sed dw (-)
PNEC Freshwater	0,17 mg/l (AF 10)
PNEC Freshwater sec	7 3- 3 (7
PNEC Soil	0,2 mg/kg soil dw (-)
PNEC STP	6,2 mg/l (AF 10)
PNEC Marinewater	0,017 mg/l (AF 100)
7722-84-1 hydrogen	
	d 0,047 mg/kg sed dw
PNEC Freshwater	0,013 mg/l (AF 50)
PNEC Freshwater sec	
PNEC Soil	0,002 mg/kg soil dw
PNEC STP	4,66 mg/l (AF 100)
PNEC Marinewater	0,013 mg/l (AF 50)
123-54-6 pentane-2,4	
	d 0,191 mg/kg sed dw
PNEC Freshwater	0,2 mg/l (AF 50)
PNEC Freshwater sed	7 3- 3
PNEC Soil	0,193 mg/kg soil dw (-)
PNEC STP	1,32 mg/l (AF 10)
PNEC Marinewater	0,02 mg/l (AF 500)
· Ingredients with bio	ological limit values:
78-93-3 butanone	
BMGV (Great Britain)	
	Medium: urine Sampling time: post shift
	Parameter: butan-2-one

8.2 Exposure controls
Appropriate engineering

No further data; see section 7. controls

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· 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: 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

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

· Physical state

· Colour: · Odour:

· Odour threshold:

· Melting point/freezing point:

Boiling point or initial boiling point and boiling range

· Flammability

· Lower and upper explosion limit

· Lower:

· Upper: · Flash point:

Decomposition temperature:

·pH

· Viscosity:

· Kinematic viscosity

· Dynamic at 20 °C:

· Solubility

water:

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

· Vapour pressure:

Density and/or relative density

Density at 20 °C: Relative density · Vapour density

Fluid

colourless - yellowish

Characteristic

Not determined.

Not applicable.

Not applicable.

May cause fire.

Not determined.

Not determined. > SADT

+50 °C (SADT)

Not determined.

Not determined.

17 mPas

Undetermined.

not determined

Not determined.

Not determined.

1,01 g/cm³

Not determined.

Not determined.

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9.2 Other information

Appearance:

Form: Fluid · Important information on protection of health and environment,

and on safety.

Ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour

mixtures are possible.

Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes · Explosives Void Flammable gases Void Aerosols Void Oxidising gases Void · Gases under pressure Void Flammable liquids Void Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void 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 7,7 - 8,0 %

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 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

Self-accelerating decomposition at SADT.

10.4 Conditions to avoid · 10.5 Incompatible materials: No further relevant information available.

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

· LD/LC50 values relevant for classification: 123-42-2 4-hydroxy-4-methylpentan-2-one LD50 3.002 mg/kg (rattus) 6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate Oral LD50 3.200 mg/kg (rattus)

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(Contd. of page 7) 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) 37187-22-7 2,4-Pentanedione, peroxide Oral LD50 >2.000 mg/kg (rattus) Dermal LD0 >2.000 mg/kg (rattus) 123-54-6 pentane-2,4-dione LD50 575 mg/kg (rattus) Oral LD50 790 mg/kg (rattus) Dermal Inhalative LC50 / 4h 5,1 mg/l (rattus)

· 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.

• Germ cell mutagenicity
• Carcinogenicity

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

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

· Reproductive toxicity Suspected of damaging the unborn child.

STOT-single exposure May cause respiratory irritation.

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 propertie	S
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78-93-3 butanone

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)

123-54-6 pentane-2,4-dione

LC50 / 96h 72 mg/l (oncorhynchus mykiss)

EC50 / 48h 75 mg/l (daphnia magna)

12.2 Persistence and degradability

· Degree of elimination:

· Classification:

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

Degradation (Readily biodegradable) (OECD 301 A)

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)

78-93-3 butanone

Degradation (Readily biodegradable) (OECD 301 D)

7722-84-1 hydrogen peroxide solution

Degradation (Readily biodegradable)

123-54-6 pentane-2,4-dione

Degradation (Readily biodegradable) (OECD 301 C)

· 12.3 Bioaccumulative potential

· Partition coefficient: nOctanol/water: [Log Kow]		
123-42-2 4-hydroxy-4-methylpentan-2-one	-0,09 (20°C)	
1338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	2,04 (25°C)	
78-93-3 butanone	0,3 (40°C)	
7722-84-1 hydrogen peroxide solution	-1,57 (20°C)	
123-54-6 pentane-2,4-dione	0,68 (20°C)	

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List II



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(Contd. of page 8) 102-82-9 tributylamine 3,34 (25 °C)

· Bioconcentration factor (BCF)

6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

BCF 183-194 (piscis)

· 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 REACH, annex XIII.

· PBT: · vPvB:

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

· 12.6 Endocrine disrupting

For information on endocrine disrupting properties see section 11.

properties

· 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.

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)-

· 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

ADR, IMDG, IATA

· 14.2 UN proper shipping name UN3105 ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL

KETONE PEROXIDE(S), ACETYL ACETONE PEROXIDE) · IMDG, IATA

ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE

PEROXIDE(S), ACETYL ACETONE PEROXIDE)

· 14.3 Transport hazard class(es)

· ADR



5.2 (P1) Organic peroxides. · Class

· 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 Hazard identification number (Kemler code):

· Stowage Category

Warning: Organic peroxides.

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· 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:

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

Not permitted as Excepted Quantity

· Transport category Tunnel restriction code D

· 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.

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

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

78-93-3 butanone

· 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

3 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

Version number of previous

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 Flam. Liq. 2: Flammable liquids – Category 2

(Contd. on page 11)

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Trade name: PEROXAN M64 A1 X

(Contd. of page 10)

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 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
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
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.

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