

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

PEROXAN M64 AX · Trade name:

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· Application of the substance /

the mixture

Reaction initiator For industrial use

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: PERGAN GmbH

Hilfsstoffe für industrielle Prozesse

Schlavenhorst 71 D-46395 Bocholt Tel: +49 2871 9902-0 Fax: +49 2871 9902-50

· Further information obtainable

from:

Qualified person: E-mail: msds@pergan.com

1.4 Emergency telephone

number: - Tel: +49 2871 9902-0

#### **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

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

H242 Heating may cause a fire. Org. Perox. D

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

Eve Dam. 1 H318 Causes serious eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction. 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 GB CLP regulation.



GHS02 GHS05 GHS07 GHS08

· 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

2,4-Pentanedione, peroxide

· 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. 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

smokina.

P220 Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).

Keep only in original packaging. P234 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 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.

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.

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· 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: 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	
CAS: 123-42-2 EINECS: 204-626-7 Index number: 603-016-00-1 Reg-No.: 01-2119473975-21	-   - <b> </b>	
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, H333	
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	
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	
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 Specific concentration limits: Skin Corr. 1A; H314: $C \ge 70$ %	1-5%

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 4.3 Indication of any immediate

No further relevant information available

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.

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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:

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



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

6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation

Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before

disposal.

Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government

regulations.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

In case of large spillage the environmental authority should be informed.

#### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

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

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

Use only in well ventilated areas

Before break and at the end of work hands should be thoroughly washed. Only use tools made of suitable materials (e. g. polyethylene or stainless steel).

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

metal compounds and amines). Avoid contact with skin and eyes While using do not eat, drink or smoke.

Avoid shock and friction.



Do not smoke.

· Information about fire - and explosion protection:

Protect from heat.

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.

· 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.

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· Further information about storage conditions:

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

Protect from contamination.

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

Recommended storage temperature (To maintain

quality):

0 .... +30 °C 5.2

Storage class:

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

#### **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

· Ingredier	Ingredients with limit values that require monitoring at the workplace:			
123-42-2 4	l-hydroxy-4-	methylpenta	n-2-one	
WEL (Great	WEL (Great Britain) Short-term value: 362 mg/m³, 75 ppm			
		ong-term valu	e: 241 mg/m³, 50 ppm	
78-93-3 bu				
WEL (Great			ie: 899 mg/m³, 300 ppm e: 600 mg/m³, 200 ppm	
		k, BMGV	e. 600 mg/m , 200 ppm	
IOELV (EU		*	ue: 900 mg/m³, 300 ppm	
(==			e: 600 mg/m³, 200 ppm	
7722-84-1	hydrogen p	eroxide solu	tion	
WEL (Great			ie: 2.8 mg/m³, 2 ppm	
	Lo	ong-term valu	e: 1.4 mg/m³, 1 ppm	
· DNELs				
		•	Itrimethylene diisobutyrate	
	_	•	5 mg/kg bw/day (Worker)	
			17.62 mg/m3 (Worker)	
		methylpenta		
	_	-	467 mg/kg bw/day (Worker)	
		•	32.6 mg/m3 (Worker)	
			e-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	
			1.43 mg/kg bw/day (Worker)	
	DNEL Acute		7.55 mg/m3	
	DNEL Longterm System			
	,	nedione, per		
	Dermal DNEL Longterm System			
Inhalative DNEL Longterm System 4.41 mg/m3 (Worker)		4.41 mg/m3 (Worker)		
78-93-3 bu				
Dermal		•	1,161 mg/kg bw/day (Worker)	
	Inhalative DNEL Longterm System 600 7722-84-1 hydrogen peroxide solution		<del>- , , , , , , , , , , , , , , , , , , ,</del>	
	DNEL Long		1.4 mg/m3 (Worker)	
	DIVEL LONG	lenn Locai	1.4 lig/iii3 (vvoikei)	
	PNECs			
	6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate  PNEC Marinewater sed   0.529 mg/kg sed dw (-)			
	PNEC Freshwater 0.014 mg/l			
PNEC Freshwater sed 5.29 mg/kg		5 5		
PNEC Soil	PNEC Soil 1.05 mg/kg PNEC STP 3 mg/l (AF			
	PNEC Marinewater 0.001 mg/l (AF 500)  123-42-2 4-hydroxy-4-methylpentan-2-one			
PNEC Marinewater sed   0.74 mg/kg sed dw				
	PNEC Freshwater 2 mg/l (AF 5			
	PNEC Freshwater sed 7.4 mg/kg s		,	
PNEC Soil		0.31 mg/kg		
1 1120 001	•	Jose ing/kg	Oostel se se se s	

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(Contd. of page 4) PNEC STP 100 mg/l (AF 10) PNFC Marinewater 0.2 mg/l (AF 500) 1338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane PNEC Marinewater sed | 0.009 mg/kg sed dw 0.006 mg/l (AF 1.000) PNEC Freshwater PNEC Freshwater sed 0.088 mg/kg sed dw 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-Pentanedione, peroxide PNEC Marinewater sed 0.153 mg/kg sed dw (-) 0.17 mg/l (AF 10) PNEC Freshwater PNEC Freshwater sed 1.53 mg/kg sed dw (-) PNFC Soil 0.2 mg/kg soil dw (-) PNFC STP 6.2 mg/l (AF 10) PNFC Marinewater 0.017 mg/l (AF 100) 7722-84-1 hydrogen peroxide solution PNEC Marinewater sed | 0.047 mg/kg sed dw PNFC Freshwater 0.013 mg/l (AF 50) PNEC Freshwater sed 0.047 mg/kg sed dw PNEC Soil 0.002 mg/kg soil dw PNEC STP 4.66 mg/l (AF 100) **PNEC Marinewater** 0.013 mg/l (AF 50) · Ingredients with biological limit values: 78-93-3 butanone BMGV (Great Britain) 70 µmol/L Medium: urine Sampling time: post shift

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.

Parameter: butan-2-one

· 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.

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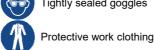
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· Eye/face protection

Tightly sealed goggles

· Body protection:



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.
<ul> <li>Boiling point or initial boiling point and boiling range</li> </ul>	Not applicable.
· Flammability	May cause fire.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	> SADT
Decomposition temperature:	+50 °C (SADT)
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	17 mPas
· Solubility	
· water:	Undetermined.
· Partition coefficient n-octanol/water (log value)	not determined
	Not determined.
· Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.01 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	
· Annearance·	

· Appearance: · Form:

Fluid · Important information on protection of health and environment,

and on safety.

Ignition temperature:

Product is not selfigniting.

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

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

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Other safety characteristics

· Active oxygen 7.3 - 7.7 %

### **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. No further relevant information available

· 10.4 Conditions to avoid · 10.5 Incompatible materials:

Additional information:

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.

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:

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

Oral LD50 3,200 mg/kg (rattus) Dermal LD50 18,900 mg/kg (caviinae)

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

LD50 3,002 mg/kg (rattus)

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

LD50 >2,000 mg/kg (rattus) Oral Dermal LD0 >2,000 mg/kg (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.

Reproductive toxicity Suspected of damaging the unborn child.

· 11.2 Information on other hazards

· Endocrine disrupting properties

78-93-3 butanone List II

#### **SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquatic toxicity:

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

LC50 / 96h | 44.2 mg/l (-)

78-93-3 butanone

LC50 / 96h 3,220 mg/l (pimephales promelas)

EC50 / 48h 5,091 mg/l (daphnia magna)

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12.2 Persistence and degradability

· Degree of elimination:

٠	C	lass	ifica	tion:
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6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Degradation (Readily biodegradable, failing 10-d wind) (OECD 301 B)

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

Degradation (Readily biodegradable) (OECD 301 A)

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)

12.3 Bioaccumulative potential

· Partition	· 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)		
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

· 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.

 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.

#### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

Recommendation



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

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

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

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), ACETYL ACETONE PEROXIDE)

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

PEROXIDE(S), ACETYL ACETONE PEROXIDE)

· 14.3 Transport hazard class(es)

· ADR

Class 5.2 (P1) Organic peroxides.

· Label

· IMDG, IATA



Class 5.2 Organic peroxides.

5.2 · Label

· 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.

D

125 ml

· 14.7 Maritime transport in bulk according to IMO instruments Not applicable.

· Transport/Additional information:

· Limited quantities (LQ)

Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity

· Transport category 2

· Tunnel restriction code D

· RID / GGVSEB: like ADR

· IMDG

125 ml · Limited quantities (LQ) 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

Poisons Act

7722-84-1 hydrogen peroxide solution

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

· Regulated explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

- · 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

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12%



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

the application of upper-tier

200 t requirements

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 (EC) No 273/2004 on drug precursors

78-93-3 butanone

3

3

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

- · National regulations:
- Other regulations, limitations and prohibitive regulations
- 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	H225	Highly flammable liquid and vapour.
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H226 Flammable liquid and vapour.

H242 Heating may cause a fire. H271 May cause fire or explosion; strong oxidiser.

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

May cause an allergic skin reaction. H317 H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

May cause drowsiness or dizziness. H336 H361d Suspected of damaging the unborn child. H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

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#### 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 (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. 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
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
Aduatic Chronic 3: Hazardous to the aquatic environment - long-term agua

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

\* Data compared to the previous version altered.