

Printing date 19.02.2024 Version: 8 (replaces version 7) Revision: 19.02.2024

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

· 1.1 Product identifier

PEROXAN ME-50 LU 2 X rot U · Trade name:

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

No further relevant information available.

· Application of the substance /

the mixture

Reaction initiator For industrial use

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: PERGAN GmbH

Hilfsstoffe für industrielle Prozesse

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

· Further information obtainable

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

1.4 Emergency telephone

number: - Tel: +49 2871 9902-0

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

· 2.1 Classification of the substance or mixture

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

H226 Flammable liquid and vapour. Flam. Liq. 3 Org. Perox. D H242 Heating may cause a fire. Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 3 H331 Toxic 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.

STOT SE 3 H335 May cause respiratory irritation.

STOT RF 2 H373 May cause damage to organs through prolonged or repeated exposure.

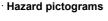
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

· Labelling according to

Regulation (EC) No 1272/2008

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











GHS02 GHS05 GHS06 GHS08 GHS09

· Signal word Danger

· Hazard-determining

components of labelling:

α,α -dimethylbenzyl hydroperoxide

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

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

4-hydroxy-4-methylpentan-2-one

Hazard statements H226 Flammable liquid and vapour. H242

Heating may cause a fire.

H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage. H361d Suspected of damaging the unborn child.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

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

Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and P220

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.

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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

· Additional information: Restricted to professional users.

· 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: 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	25-40%
CAS: 80-15-9 EINECS: 201-254-7 Index number: 617-002-00-8 Reg-No.: 01-2119475796-19	α,α -dimethylbenzyl hydroperoxide   Org. Perox. E, H242; Acute Tox. 3, H331; STOT RE 2, H373; Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312   Specific concentration limits: Skin Corr. 1B; H314: C ≥ 10 %	25-30%
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: 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 %	2.5-10%
CAS: 98-82-8 EINECS: 202-704-5 Index number: 601-024-00-X Reg-No.: 01-2119473983-24		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	0.1-5%
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: $C \ge 70$ %	0.1-2.5%
CAS: 617-94-7 EINECS: 210-539-5	2-Phenyl-2-propanol Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-2.5%
A 1 11/1 1 1 4 /1		

For the wording of the listed hazard phrases refer to section 16.

# **SECTION 4: First aid measures**

Additional information:

· 4.1 Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

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Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours offer the assidant

hours after the accident.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

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Take care of personal protection for the first aider.

· After inhalation: Supply fresh air or oxygen; call for 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

#### **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:** Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

Additional information

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.

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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.

Keep respiratory protective device available.

Fumes can combine with air to form an explosive mixture.



Wear shoes with conductive soles.

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

· 7.2 Conditions for safe storage, including any incompatibilities

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

Requirements to be met by

storerooms and receptacles:

Store only in the original receptacle.

Prevent any seepage into the ground.

Use only receptacles specifically permitted for this substance/product.

· Information about storage in

one common storage facility:

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

Store away from foodstuffs, drinks and feeding stuffs.

· Further information about

storage conditions:

Keep container tightly sealed.

Protect from heat and direct sunlight.

Protect from contamination.

Store under lock and key and with access restricted to technical experts or their assistants only.

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

· Recommended storage temperature (To maintain

quality): Storage class: 0 .... +30 °C

5.2

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

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

### · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:		
123-42-2 4-hydroxy-4-methylpentan-2-one		
WEL (Great Britain)	Short-term value: 362 mg/m³, 75 ppm Long-term value: 241 mg/m³, 50 ppm	
98-82-8 Cumene		
WEL (Great Britain)	Short-term value: 250 mg/m³, 50 ppm Long-term value: 125 mg/m³, 25 ppm Sk	
IOELV (EU)	Short-term value: 250 mg/m³, 50 ppm Long-term value: 50 mg/m³, 10 ppm Skin	
78-93-3 butanone		
WEL (Great Britain)	Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV	
IOELV (EU)	Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm	
7722-84-1 hydroger	n peroxide solution	
WEL (Great Britain)	Short-term value: 2.8 mg/m³, 2 ppm Long-term value: 1.4 mg/m³, 1 ppm  (Contd. on page 5)	

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	(Contd. of page
DNELs	
	2,2-dimethyltrimethylene diisobutyrate
_	rm System 5 mg/kg bw/day (Worker)
	rm System 17.62 mg/m3 (Worker)
80-15-9 α,α -dimethylbe	
_	rm System 6 mg/m3 (Worker)
	ss of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane
_	rm System 1.43 mg/kg bw/day (Worker)
Inhalative DNEL Acute S	,
	rm System 2.52 mg/m3 (Worker)
123-42-2 4-hydroxy-4-m	• •
	rm System   467 mg/kg bw/day (Worker)
	rm System 32.6 mg/m3 (Worker)
98-82-8 Cumene	
	rm System   15.4 mg/kg bw/day (Worker)
Inhalative DNEL Longte	rm System 100 mg/m3 (Worker)
78-93-3 butanone	
	rm System 1,161 mg/kg bw/day (Worker)
	rm System 600 mg/m3 (Worker)
7722-84-1 hydrogen pe	
Inhalative DNEL Longte	rm Local 1.4 mg/m3 (Worker)
PNECs	<u>'</u>
6846-50-0 1-isopropyl-2	2,2-dimethyltrimethylene diisobutyrate
PNEC Marinewater sed	
	0.014 mg/l (AF 50)
	5.29 mg/kg sed dw
	1.05 mg/kg soil dw
	3 mg/l (AF 10)
	0.001 mg/l (AF 500)
80-15-9 α,α -dimethylbe	
PNEC Marinewater sed	
	0.003 mg/l (AF 1.000)
	0.023 mg/kg sed dw (-)
	0.023 mg/kg soil dw (-)
	0.35 mg/l (-)
	0.33 filg/i (-) 0 mg/l (AF 10.000)
	ss of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane
PNEC Marinewater sed	<u> </u>
	0.006 mg/l (AF 1.000)
	0.088 mg/kg sed dw
	0.014 mg/kg soil dw
	1.2 mg/l (AF 10)
	0.001 mg/l (AF 10.000)
123-42-2 4-hydroxy-4-m	• •
PNEC Marinewater sed	
	2 mg/l (AF 50)
	7.4 mg/kg sed dw
	0.31 mg/kg soil dw
	100 mg/l (AF 10)
	0.2 mg/l (AF 500)
98-82-8 Cumene	
PNEC Marinewater sed	
	0.035 mg/l (AF 10)
PNEC Freshwater sed	3.22 mg/kg sed dw (-)
PNEC Freshwater sed	3.22 mg/kg sed dw (-) 0.624 mg/kg soil dw (-)
PNEC Freshwater sed PNEC Soil	

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7722-84-1 hydrogen peroxide solution

PNEC Marinewater sed PNEC Freshwater 0.047 mg/kg sed dw 0.013 mg/l (AF 50)
PNEC Freshwater sed PNEC Soil 0.002 mg/kg seil dw PNEC STP 4.66 mg/l (AF 100)
PNEC Marinewater 0.047 mg/kg sed dw 0.002 mg/kg seil dw 0.002 mg/kg soil dw 0.003 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 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

Material of gloves

The selection of the suital

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

Fluid Red

Characteristic
Not determined.

Not applicable.

Not applicable. May cause fire.

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· Lower and upper explosion limit	
Lower:	Not determined.
· Upper:	Not determined.
Flash point:	57 °C

> +60 °C (SADT)

Decomposition temperature: рΗ

Viscosity:

 Kinematic viscosity Not determined. Dynamic at 20 °C: 14 mPas

· 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: 1.017 g/cm<sup>3</sup> Not determined. Relative density · 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

mixtures are possible.

Not determined.

Not determined.

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

· Explosives Void Flammable gases Void · Aerosols Void Void · Oxidising gases · Gases under pressure Void

· Flammable liquids Flammable liquid and vapour.

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

8.4 - 8.7 % Active oxygen

# **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.

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• 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

· Additional information:

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 Harmful if swallowed or in contact with skin.

Toxic if inhaled.

· LD/LC50	) values re	levant for classification:
6846-50-0	1-isoprop	yl-2,2-dimethyltrimethylene diisobutyrate
Oral	LD50	3,200 mg/kg (rattus)
Dermal	LD50	18,900 mg/kg (caviinae)
80-15-9 α,α -dimethylbenzyl hydroperoxide		
Oral	LD50	200-2,000 mg/kg (rattus)
Dermal	LD50	400-2,000 mg/kg (rattus)
Inhalative	LC50 / 4h	0.5-2 mg/l (rattus)
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)
98-82-8 C	umene	
Oral	LD50	2,260 mg/kg (rattus)
Dermal	LD50	12,300 mg/kg (cuniculosus)
Inhalative	LC50 / 4h	24.7 mg/l (mus)
617-94-7 2	2-Phenyl-2	propanol
Oral	LD50	1,300 mg/kg (rattus)
Dermal	LD50	4,300 mg/kg (cuniculosus)

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

Reproductive toxicity Suspected of damaging the unborn child.

STOT-single exposure May cause respiratory irritation.

• STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

11.2 Information on other hazards

<ul> <li>Endocrine disrupting properties</li> </ul>	·E	ndocrine	disrupting	properties
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78-93-3 butanone

List II

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

#### · 12.1 Toxicity

Aquatio	toxicity:

### 80-15-9 α,α -dimethylbenzyl hydroperoxide

LC50 10-100 mg/l (leuciscus idus)

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: · Classification:

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

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

# 80-15-9 α,α -dimethylbenzyl hydroperoxide

Degradation (Not readily biodegradable) (OECD 301 B)

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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)

98-82-8 Cumene

Degradation (Readily biodegradable)

78-93-3 butanone

Degradation (Readily biodegradable) (OECD 301 D)

7722-84-1 hydrogen peroxide solution

12.3 Bioaccumulative potential

Degradation (Readily biodegradable)

Partition coefficient: nOctanol/water: [Log Kow]			
80-15-9	α,α -dimethylbenzyl hydroperoxide	1,6 (25°C)	
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)	
98-82-8	Cumene	3,55 (20°C)	
78-93-3	butanone	0,3 (40°C)	
7722-84-1	hydrogen peroxide solution	-1,57 (20°C)	
617-94-7	2-Phenyl-2-propanol	1,89 (25°C)	
98-86-2	acetophenone	1,65 (20°C)	
102-82-9	tributylamine	3,34 (25 °C)	
1330-20-7	xylene	3,16 (20°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: Toxic for fish

· Additional ecological information:

• General notes: Toxic for aquatic organisms

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

Also poisonous for fish and plankton in water bodies.

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

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· 14.2 UN proper shipping name	
488	1010405 ODO44110 DED03//DE T

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

KETONE PEROXIDE(S), CUMYLHYDROPEROXIDE),

ENVIRONMENTALLY HAZARDOUS

ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S), CUMYLHYDROPEROXIDE), MARINE POLLUTANT ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE

PEROXIDE(S), CUMYLHYDROPEROXIDE)

· 14.3 Transport hazard class(es)

· ADR

· IMDG

· IATA



· Class 5.2 (P1) Organic peroxides. · Label 5.2

· IMDG





Class 5.2 Organic peroxides.

· Label

· IATA



Class 5.2 Organic peroxides.

· Label 5.2

· 14.4 Packing group

· ADR, IMDG Void

· 14.5 Environmental hazards: Product contains environmentally hazardous substances: **CUMYLHYDROPEROXIDE** 

· Marine pollutant: Symbol (fish and tree) Special marking (ADR): Symbol (fish and tree)

· 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

· 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

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### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act

Regulated explosives precursors	
7722-84-1 hydrogen peroxide solution	12%
Regulated poisons	
None of the ingredients is listed.	
Reportable 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
   H2 ACUTE TOXIC

P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

E2 Hazardous to the Aquatic Environment

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

requirements 50 t
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.

· 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

· 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	H225	Highly flammable liquid and vapour.
	11000	Element of the Constitution of the constitution

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.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.H318 Causes serious eye damage.

H319 Causes serious eye irritation.
H331 Toxic if inhaled.

H331 Toxic if inhaled. H332 Harmful if inhaled.

H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

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

EUH066 Repeated exposure may cause skin dryness or cracking.

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· 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

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

LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Ox. Liq. 1: Oxidizing liquids – Category 1
Org. Perox. D: Organic peroxides – Type C/D
Org. Perox. E: Organic peroxides – Type E/F
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1A: Skin corrosion/irritation – Category 1B
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
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – 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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