

Printing date 04.04.2024 Version: 8 (replaces version 7) Revision: 04.03.2024

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

· 1.1 Product identifier

PEROXAN A-25 M · 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

- Tel: +49 2871 9902-0 number:

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. 1C H314 Causes severe skin burns and eye damage. Eve Dam. 1 H318 Causes serious eye damage.

H317 May cause an allergic skin reaction. Skin Sens. 1 Muta. 2 H341 Suspected of causing genetic defects.

Carc. 2 H351 Suspected of causing cancer.

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

Hazard pictograms

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









GHS02 GHS05 GHS07 GHS08

· Signal word

Danger

· Hazard-determining

components of labelling:

tert-butyl hydroperoxide 4-hydroxy-4-methylpentan-2-one

2,4-Pentadione, peroxide pentane-2,4-dione

H242 Heating may cause a fire. · Hazard statements

H332 Harmful if inhaled.

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

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

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

smoking.

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

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

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

water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

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P410 Protect from sunlight.

P411+P235 Store at temperatures not exceeding +25°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 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 propertiesThe product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

Dangerous components:		
CAS: 131-11-3 EINECS: 205-011-6 Reg-No.: 01-2119437229-36	dimethyl phthalate substance with a Community workplace exposure limit	40-50%
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 %	20-30%
CAS: 13784-51-5 EINECS: 237-438-9 Reg-No.: 01-2119965139-28	2,4-Pentadione, peroxide Alternative CAS number: 37187-22-7 Org. Perox. D, H242; Eye Irrit. 2, H319; Skin Sens. 1, H317	10-20%
CAS: 75-91-2 EINECS: 200-915-7 Reg-No.: 01-2119446670-40	tert-butyl hydroperoxide Flam. Liq. 3, H226; Org. Perox. F, H242; Acute Tox. 3, H311; Acute Tox. 2, H330; Muta. 2, H341;	5-10%
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	0,1-2,5%
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: $C \ge 70$ % Skin Corr. 1B; H314: 50 % $\le C < 70$ % Skin Irrit. 2; H315: 35 % $\le C < 50$ % Eye Dam. 1; H318: $C \ge 8$ % Eye Irrit. 2; H319: 5 % $\le C < 8$ % STOT SE 3; H335: $C \ge 35$ % Ox. Liq. 1; H271: $C \ge 70$ % Ox. Liq. 2; H272: 50 % $\le C < 70$ %	0,1-2,5%

Additional information: tert-butyl hydroperoxide 70%ig in water

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.

+

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.
Rinse opened eye for several minutes under running water. Then consult a doctor.

• After eye contact: Rinse opened eye for several minut
• After swallowing: If symptoms persist consult doctor.

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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.

X

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.

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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.

Storage in a collecting room is required.

Recommended storage temperature (To maintain

quality):

+5 +25 °C

Storage class:

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:			
131-11-3 dimethyl phthalate			
OEL (Irela		Short-term value	
		Long-term valu	
WEL (Gre		Short-term value	
		Long-term valu	e: 5 mg/m³
123-42-2	1-hydroxy-	-4-methylpenta	n-2-one
OEL (Irela	nd)	Long-term valu	e: 240 mg/m³, 50 ppm
WEL (Gre	at Britain)		ue: 362 mg/m³, 75 ppm
		Long-term valu	e: 241 mg/m³, 50 ppm
123-54-6 p	pentane-2,	4-dione	
OEL (Irela	nd)	Long-term valu	e: 25 ppm
7722-84-1	hydrogen	peroxide solu	tion
OEL (Irela	nd)		ie: 3 mg/m³, 2 ppm
		Long-term valu	e: 1,5 mg/m³, 1 ppm
WEL (Gre			ie: 2,8 mg/m³, 2 ppm
		Long-term valu	e: 1,4 mg/m³, 1 ppm
·DNELs			
131-11-3	dimethyl p	hthalate	
Dermal	DNEL Lor	ngterm System	135 mg/kg bw/day (-)
Inhalative	DNEL Lor	ngterm System	66,1 mg/m3 (-)
123-42-2 4-hydroxy-4-methylpentan-2-one			
Dermal	DNEL Lor	ngterm System	467 mg/kg bw/day (Worker)
Inhalative	DNEL Lor	ngterm System	32,6 mg/m3 (Worker)
13784-51-5 2,4-Pentadione, peroxide			
Dermal	DNEL Lor	ngterm System	5 mg/kg bw/day (Worker)
Inhalative	DNEL Lor	ngterm System	4,41 mg/m3 (Worker)
75-91-2 tert-butyl hydroperoxide			
Dermal	DNEL Lor	ngterm System	0,21 mg/kg bw/day (Worker)
Inhalative		ute Systemic	85,2 mg/m3 (Worker)
	DNEL Acu	ute Local	28,4 mg/m3 (Worker)
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	(Contd. of
_	rm System 2,2 mg/m3 (Worker)
DNEL Longte	· · · · · · · · · · · · · · · · · · ·
123-54-6 pentane-2,4-d	
_	rm System 12 mg/kg bw/day (Worker)
	rm System 84 mg/m3 (Worker)
7722-84-1 hydrogen pe	roxide solution
Inhalative DNEL Longte	rm Local 1,4 mg/m3 (Worker)
PNECs	
131-11-3 dimethyl phth	alate
PNEC Marinewater sed	0,13 mg/kg sed dw (-)
PNEC Freshwater	0,192 mg/l (AF 50)
PNEC Freshwater sed	1,3 mg/kg sed dw (-)
PNEC Soil	3,16 mg/kg soil dw (AF 1.000)
PNEC STP	4 mg/l (AF 100)
PNEC Marinewater	0,019 mg/l (AF 500)
123-42-2 4-hydroxy-4-n	
PNEC Marinewater sed	• •
PNEC Freshwater	2 mg/l (AF 50)
PNEC Freshwater sed	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)
13784-51-5 2,4-Pentadi	
•	0,153 mg/kg sed dw (-)
PNEC Freshwater	0,17 mg/l (AF 10)
PNEC Freshwater sed	1,53 mg/kg sed dw (-)
PNEC Soil	0,2 mg/kg soil dw (-)
PNEC STP	6,2 mg/l (AF 10)
PNEC Marinewater	0,017 mg/l (AF 100)
75-91-2 tert-butyl hydro	
PNEC Marinewater sed	·
PNEC Freshwater	0,001 mg/l (AF 1.000)
PNEC Freshwater	0,002 filg/l (AF 1.000)
PNEC Seawater PNEC Freshwater sed	
PNEC Freshwater sed PNEC Soil	0,006 mg/kg sed dw (-)
	0,166 mg/kg soil dw (AF 1.000)
PNEC STP	0,17 mg/l (AF 100)
123-54-6 pentane-2,4-d	
PNEC Marinewater sed	
PNEC Freshwater	0,2 mg/l (AF 50)
PNEC Freshwater sed	1,909 mg/kg sed dw
PNEC Soil	0,193 mg/kg soil dw (-)
PNEC STP	1,32 mg/l (AF 10)
PNEC Marinewater	0,02 mg/l (AF 500)
7722-84-1 hydrogen pe	
PNEC Marinewater sed	
PNEC 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)

· 8.2 Exposure controls

Appropriate engineering

controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

· General protective and

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. hygienic measures:

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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.

· Hand protection Only use chemical-protective gloves with CE-labelling of category III.

Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· 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.

Butvl 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

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

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

· Vapour pressure:

Density and/or relative density

 Density at 20 °C: Relative density · Vapour density

Not determined. 21 mPas

Fluid

Colourless

Characteristic

Not applicable.

Not applicable.

May cause fire.

Not determined.

Not determined.

> +60 °C (SADT)

Not determined.

> SADT

Not determined.

Undetermined. not determined

Not determined. Not determined.

1,125 g/cm³

Not determined. Not determined.

9.2 Other information

· Appearance:

· Form: Fluid

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ent, Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapou
mixtures are possible.
mixtures are possible.
Not determined.
Not determined.
Void
Void
Void
Void
Heating may cause a fire.
Void
Void
. 5.2
2,6 - 2,8 %

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 and above the temperature 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 Harmful if inhaled.

	, water to	onioity.	Tarmar i imaloa.		
	· LD/LC50 values relevant for classification:				
	123-42-2 4-hydroxy-4-methylpentan-2-one				
	Oral	LD50	3.002 mg/kg (rattus)		
	13784-51-5 2,4-Pentadione, peroxide				
	Oral	LD50	>2.000 mg/kg (rattus)		
	75-91-2 tert-butyl hydroperoxide				
	Oral	LD50	805 mg/kg /(70%) (rattus)		
	Dermal	LD50	633 mg/kg /(70%) (rabbit)		
-			-	/O 11 O	

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Inhalative LC50 / 4h 1,2 mg/l /(70%) (rattus)

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

 Oral
 LD50
 575 mg/kg (rattus)

 Dermal
 LD50
 790 mg/kg (rattus)

 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

Germ cell mutagenicity

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

Carcinogenicity
 Reproductive toxicity
 Suspected of causing cancer.
 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 properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

 Aquatic tox 	icity:
---------------------------------	--------

13784-51-5 2,4-Pentadione, peroxide

EC50 / 72h 5,4 mg/l (alga (Süsswasser))

LC50 / 96h 67,7 mg/l (fish) EC50 / 48h 7,1 mg/l (daphnia)

75-91-2 tert-butyl hydroperoxide

EC50 / 72h 2,1 mg/l /(70%) (selenastrum capricornutum)

LC50 / 96h 42,3 mg/l /(70%) (pimephales promelas)

EC50 24,3 mg/l /(70%) (activa sludge)

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

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

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

EC50 / 48h 75 mg/l (daphnia)

12.2 Persistence and degradability

Degree of elimination:

· Classification:

131-11-3 dimethyl phthalate

Degradation (Readily biodegradable) (OECD 301 E)

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

Degradation (Readily biodegradable) (OECD 301 A)

13784-51-5 2,4-Pentadione, peroxide

Degradation (Readily biodegradable) (OECD 301 D)

75-91-2 tert-butyl hydroperoxide

Degradation (Not readily biodegradable) (OECD 301 D)

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

Degradation (Readily biodegradable) (OECD 301 C)

7722-84-1 hydrogen peroxide solution

Degradation (Readily biodegradable)

12.3 Bioaccumulative potential

· Partition o	Partition coefficient: nOctanol/water: [Log Kow]		
131-11-3	dimethyl phthalate	1,54 (25°C)	
123-42-2	4-hydroxy-4-methylpentan-2-one	-0,09 (20°C)	
13784-51-5	2,4-Pentadione, peroxide	1,1 (20°C)	
75-91-2	tert-butyl hydroperoxide	0,85 (30 °C)	
123-54-6	pentane-2,4-dione	0,68 (20°C)	
7722-84-1	hydrogen peroxide solution	-1,57 (20°C)	

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| (Contd. of page 8) | 110-05-4 | di-tert-butyl peroxide | 3,2 (22°C)

· Bioconcentration factor (BCF)

131-11-3 dimethyl phthalate

BCF 57

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 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

properties The product does not contain substances with endocrine disrupting properties.12.7 Other adverse effects

· Remark:

Additional ecological information:

• General notes: Must not reach sewage water or drainage ditch undiluted or unneutralised.

Harmful to aquatic organisms

Harmful to fish

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation



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

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

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

number.

· Uncleaned packaging:

Recommendation: This material and its container must be disposed of as hazardous waste.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3105
14.2 UN proper shipping name	UN3105 ORGANIC PEROXIDE TYPE D, LIQUID (ACETYL ACETONE
ADK	PEROXIDE)
· IMDG, IATA	ORGANIC PEROXIDE TYPE D, LIQUID (ACETYL ACETONE PEROXIDE)

· 14.3 Transport hazard class(es)

· ADR



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

· IMDG, IATA



· Class 5.2 Organic peroxides. · Label 5.2

abel

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):

- Warning: Organic peroxides.

· Stowage Category

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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.

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

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

requirements

200 t **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

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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

None of the ingredients is listed.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

· Relevant phrases H226 Flammable liquid and vapour.

H242 Heating may cause a fire.

H271 May cause fire or explosion; strong oxidiser.

H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

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

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H319 Causes serious eye irritation.

H330 Fatal if inhaled. H331 Toxic if inhaled

H332 Harmful if inhaled.

H335 May cause respiratory irritation. H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.
H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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· Version number of previous

· Contact:

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 VPUB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Ox. Liq. 1: Oxidizing liquids – Category 1 Org. Perox. D: Organic peroxides – Type C/D Org. Perox. F: Organic peroxides – Type E/F

Org. Perox. F: Organic peroxides – Type E/F
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 2: Carcinopenicity – Category 2

Aquatic Chronic 3: 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

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

* Data compared to the previous version altered.