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

· 1.1 Product identifier

PEROXAN A-50 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. 3 H331 Toxic if inhaled.

Skin Corr. 1C 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. 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 GHS06 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

· Hazard statements

H242 Heating may cause a fire.

H331 Toxic if inhaled.

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

Suspected of causing cancer. H351

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 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 properties**The product does not contain substances with endocrine disrupting properties.

## 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 %	40-60%
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	20-30%
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; Carc. 2, H351; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limits: Eye Dam. 1; H318: C ≥ 1 % Skin Sens. 1; H317: C ≥ 0,1 % STOT SE 3; H335: C ≥ 5 %	10-20%
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	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 % Skin Corr. 1B; H314: 50 % ≤ C < 70 % Skin Irrit. 2; H315: 35 % ≤ C < 50 % Eye Dam. 1; H318: C ≥ 8 % Eye Irrit. 2; H319: 5 % ≤ C < 8 % STOT SE 3; H335: C ≥ 35 % Ox. Liq. 1; H271: C ≥ 70 % Ox. Liq. 2; H272: 50 % ≤ C < 70 %	0,1-5%

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.

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: 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:** 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. 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.

Protect against electrostatic charges.

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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.

· 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: 5.2

PNEC Freshwater sed 7,4 mg/kg sed dw

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

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

· 8.1 Contro	ol parameters	3		
Ingredients with limit values that require monitoring at the workplace:				
123-42-2	123-42-2 4-hydroxy-4-methylpentan-2-one			
WEL (Gre	WEL (Great Britain) Short-term value: 362 mg/m³, 75 ppm			
			e: 241 mg/m³, 50 ppm	
	hydrogen pe			
WEL (Gre			ue: 2,8 mg/m³, 2 ppm e: 1,4 mg/m³, 1 ppm	
	Loi	ig-terrir valu	e. 1,4 mg/m , 1 ppm	
· DNELs				
	1-hydroxy-4-n			
Dermal		,	467 mg/kg bw/day (Worker)	
	_		32,6 mg/m3 (Worker)	
	5 2,4-Pentadi	· ·		
Dermal		•	5 mg/kg bw/day (Worker)	
	_	-	4,41 mg/m3 (Worker)	
	rt-butyl hydro	•		
Dermal	_	-	0,21 mg/kg bw/day (Worker)	
Inhalative	DNEL Acute	,	85,2 mg/m3 (Worker)	
	DNEL Acute		28,4 mg/m3 (Worker)	
	_	•	2,2 mg/m3 (Worker)	
	DNEL Longte		0,58 mg/m3 (Worker)	
	pentane-2,4-d			
Dermal		,	12 mg/kg bw/day (Worker)	
		,	84 mg/m3 (Worker)	
7722-84-1 hydrogen peroxide solution				
Inhalative DNEL Longterm Local 1,4 mg/m3 (Worker)				
·PNECs				
123-42-2	1-hydroxy-4-n	nethylpenta	n-2-one	
PNEC Ma	rinewater sed			
PNEC Fre	shwater	2 mg/l (AF	50)	

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(Contd. of page 4) PNEC Soil 0,31 mg/kg soil dw PNFC STP 100 mg/l (AF 10) **PNEC Marinewater** 0,2 mg/l (AF 500) 13784-51-5 2,4-Pentadione, 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 (-) PNEC Soil 0,2 mg/kg soil dw (-) PNFC STP 6,2 mg/l (AF 10) **PNEC Marinewater** 0,017 mg/l (AF 100) 75-91-2 tert-butyl hydroperoxide PNEC Marinewater sed | 0,001 mg/kg sed dw 0,002 mg/l (AF 1.000) PNEC Freshwater PNFC Seawater 0 mg/l (AF 10.000) PNEC Freshwater sed 0,006 mg/kg sed dw (-) PNEC Soil 0,166 mg/kg soil dw (AF 1.000) PNEC STP 0,17 mg/l (AF 100) 123-54-6 pentane-2,4-dione PNEC Marinewater sed 0,191 mg/kg sed dw 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 peroxide solution PNEC Marinewater sed 0,047 mg/kg sed dw **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)

**Additional information:** The lists valid during the making were used as basis.

8.2 Exposure controls

**PNEC Marinewater** 

Appropriate engineering

**controls** No further data; see section 7.

0,013 mg/l (AF 50)

· 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

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Fluid

Colourless

Characteristic

Not determined.

Not applicable.

Not applicable.

May cause fire.

Not determined.

Not determined.

> +60 °C (SADT)

Not determined.

Undetermined.

not determined Not determined.

Not determined.

Not determined.

Not determined.

1,021 g/cm<sup>3</sup>

15 mPas

Not determined.

> SADT

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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

Neoprene

Tightly sealed goggles

· Body protection:

Protective work clothing

# **SECTION 9: Physical and chemical properties**

· 9.1 Information on	basic physical	and chemical	properties
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· 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 · 9.2 Other information

· Appearance: · Form:

· Important information on protection of health and environment, and on safety.

· Ignition temperature:

· Explosive properties:

· Change in condition · Evaporation rate

Product is not selfigniting.

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

mixtures are possible.

Not determined.

· Information with regard to physical hazard classes

· Explosives

Flammable gases · Aerosols

· Oxidising gases · Gases under pressure

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

· Pyrophoric liquids · Pyrophoric solids

Self-heating substances and mixtures · Substances and mixtures, which emit flammable gases in

contact with water

**Oxidising liquids** Oxidising solids

· Organic peroxides

Void

Fluid

Void Void

Void Void

Void Void Void

Void Void Void

Void Void

Void

Heating may cause a fire.

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 Corrosive to metals Void

 Desensitised explosives Void Other safety characteristics

· Active oxygen 5,1 - 5,3 %

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

No further relevant information available. · 10.1 Reactivity

· 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 · 10.4 Conditions to avoid

Self-accelerating decomposition at SADT. No further relevant information available.

· 10.5 Incompatible materials:

Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g.

heavy-metal compounds and amines).

· 10.6 Hazardous decomposition

products:

Hydrocarbons, carbondioxide and -monoxid.

No hazardous decomposition products if used and stored according to specifications.

· Additional information: Emergency procedures will vary depending on conditions. The customer should have an emergency

response plane in place.

#### **SECTION 11: Toxicological information**

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity Toxic if inhaled.

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

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

· Serious eye damage/irritation Causes serious eye damage.

· Respiratory or skin

Carcinogenicity

sensitisation Germ cell mutagenicity

May cause an allergic skin reaction. Suspected of causing genetic defects. Suspected of causing cancer. Suspected of damaging the unborn child.

· Reproductive toxicity STOT-single exposure May cause respiratory irritation.

· STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

Inhalative LC50 / 4h 5,1 mg/l (rattus)

Endocrine disrupting properties

None of the ingredients is listed.

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# **SECTION 12: Ecological information**

#### · 12.1 Toxicity

· Aquatic to	· Aquatic toxicity:				
13784-51-5	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	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 / 06h	72 mg/l (appearbymobylo mykigo)				

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

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

# 12.2 Persistence and degradability

· Degree of elimination:

 C	lass	ifi	ca	tic	'n.

#### 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

	1210 Biodocamatatro potentia			
· Partition	· Partition coefficient: nOctanol/water: [Log Kow]			
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)		
110-05-4	di-tert-butyl peroxide	3,2 (22°C)		

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

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 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.

The product does not contain substances with endocrine disrupting properties.

# **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

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· 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

· ADR UN3105 ORGANIC PEROXIDE TYPE D, LIQUID (ACETYL ACETONE

PEROXIDE)

ORGANIC PEROXIDE TYPE D, LIQUID (ACETYL ACETONE PEROXIDE) · IMDG, IATA

· 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.

Warning: Organic peroxides. · 14.6 Special precautions for user

Hazard identification number (Kemler code):

· Stowage Category D · Stowage Code

SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. · Segregation Code

SG72 See 7.2.6.3.2.

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

· Transport/Additional information:

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

Not permitted as Excepted Quantity

Transport category D · Tunnel restriction code

· RID / GGVSEB: like ADR

· IMDG

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

Not permitted as Excepted Quantity

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

· Named dangerous substances

- ANNEX I None of the ingredients is listed.

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

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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

**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

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Version number of previous

version:

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

PBT: Persistent, Bioaccumulative and Toxic vPvB: 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
Acute Tox. 9: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 4
Acute Tox. 2: 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

Muta. 2: Germ cell mutagenicity – Category 2 Carc. 2: Carcinogenicity – Category 2 Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

· \* Data compared to the previous version altered.

МТ