

Printing date 04.04.2024 Version: 10 (replaces version 9) Revision: 04.03.2024

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

· 1.1 Product identifier

Trade name: PEROXAN A-50 M

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

No further relevant information available.

· Application of the substance /

the mixture

Reaction initiator For industrial use

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: PERGAN GmbH

Hilfsstoffe für industrielle Prozesse

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

· Further information obtainable

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

1.4 Emergency telephone

number: - Tel: +49 2871 9902-0

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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

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

Acute Tox. 3 H331 Toxic if inhaled.

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

Eye Dam. 1 H318 Causes serious eye damage.

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

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 2 H351 Suspected of causing cancer.

Carc. 2 H351 Suspected of causing cancer.
STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008 The

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

· Hazard pictograms



· Signal word Danger

· Hazard-determining

components of labelling:

tert-butyl hydroperoxide 2,4-Pentadione, peroxide hydrogen peroxide solution

hydrogen peroxide solution
• **Hazard statements**hydrogen peroxide solution
H242 Heating may cause a fire.

H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. 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.

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.

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. Immediately call a POISON CENTER/doctor.

P310 Immediately call a POISON CENTER/do

P405 Store locked up.
P410 Protect from sunlight.

P411+P235 Store at temperatures not exceeding +25°C. Keep cool.

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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.
 ▶ 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

CAS: 123-42-2	4-hydroxy-4-methylpentan-2-one	40-60%
EINECS: 204-626-7 Index number: 603-016-00-1 Reg-No.: 01-2119473975-21	Flam. Liq. 3, H226; Repr. 2, H361d; Eye Irrit. 2, H319; STOT SE 3, H335 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 10 %	
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.: UK-01-4463411452-2-0001	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: $C \ge 70$ %	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.

Immediately wash with water and soap and rinse thoroughly.

• After skin contact: Immediately wash with water and soap and rinse thorou Immediately remove contaminated clothing.

tact: 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.

 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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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

· Additional information

· **Protective equipment:** Mouth respiratory protective device.

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.

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

Wear breathing apparatus with filter A during decomposition of materials.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

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

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.

Prevent impact and friction.

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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.

Recommended storage temperature (To maintain

quality):

+5 +25 °C

Storage class: 5.2

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

SECTION 8: Exposure controls/personal protection

	The product of the control of the co			
· 8.1 Contro	· 8.1 Control parameters			
· Ingredier	nts with limit values t	at require monitoring at the workplace:		
123-42-2	1-hydroxy-4-methylpe	tan-2-one		
WEL (Gre	WEL (Great Britain) Short-term value: 362 mg/m³, 75 ppm Long-term value: 241 mg/m³, 50 ppm			
7722-84-1	hydrogen peroxide s	lution		
WEL (Gre		alue: 2.8 mg/m³, 2 ppm alue: 1.4 mg/m³, 1 ppm		
· DNELs				
123-42-2	1-hydroxy-4-methylpe	tan-2-one		
Dermal	DNEL Longterm Syste	m 467 mg/kg bw/day (Worker)		
Inhalative	DNEL Longterm Syste	m 32.6 mg/m3 (Worker)		
13784-51-	13784-51-5 2,4-Pentadione, peroxide			
Dermal	DNEL Longterm Syste	m 5 mg/kg bw/day (Worker)		
Inhalative	DNEL Longterm Syste	m 4.41 mg/m3 (Worker)		
75-91-2 te	75-91-2 tert-butyl hydroperoxide			
Dermal	DNEL Longterm Syste	m 0.21 mg/kg bw/day (Worker)		
Inhalative	DNEL Acute Systemic	85.2 mg/m3 (Worker)		

Dermal	DNEL Longterm System	0.21 mg/kg bw/day (Worker)
Inhalative	DNEL Acute Systemic	85.2 mg/m3 (Worker)
	DNEL Acute Local	28.4 mg/m3 (Worker)
	DNEL Longterm System	2.2 mg/m3 (Worker)
	DNEL Longterm Local	0.58 mg/m3 (Worker)

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

Dermai	DNEL Longterm System	12 mg/kg bw/day (vvorker)
Inhalative	DNEL Longterm System	84 mg/m3 (Worker)

7722-84-1 hydrogen peroxide solution

Inhalative | DNEL Longterm Local | 1.4 mg/m3 (Worker)

·PNECs

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

PNEC Marinewater sed	0.74 mg/kg sed dw
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)

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	(Contd. of page 4
PNEC Marinewater	0.2 mg/l (AF 500)
13784-51-5 2,4-Pentad	
PNEC Marinewater sed	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	operoxide
PNEC Marinewater sed	0.001 mg/kg sed dw
PNEC Freshwater	0.002 mg/l (AF 1.000)
PNEC 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-c	lione
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 pe	eroxide solution
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)

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 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

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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



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	al state	

· Colour:

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

Not determined. 1.021 g/cm³

15 mPas

Fluid

Colourless Characteristic

Not determined.

Not applicable.

Not applicable.

May cause fire.

Not determined

Not determined.

Not determined.

Not determined.

Undetermined.

not determined Not determined.

> SADT > +60 °C (SADT)

Not determined.
Not determined.

9.2 Other information

· Appearance:

· Explosives

Form:
Important information on protection of health and environment,

and on safety.

Ignition temperature:

Fluid

Void

Product is not selfigniting.

• **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

• Change in condition

• Evaporation rate Not determined.

· Information with rega	ard to physical	hazard classes
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Flammable gases
Void
Aerosols
Oxidising gases
Gases under pressure
Flammable liquids
Flammable solids
Self-reactive substances and mixtures

Self-reactive substances and mixtures
Pyrophoric liquids
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

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(Contd. of page 6) Void

Desensitised explosives

Other safety characteristics

Active oxygen

5.1 - 5.3 %

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 Toxic if inhaled.

· 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

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

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

LD50 Oral 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 May cause an allergic skin reaction. Germ cell mutagenicity Suspected of causing genetic defects. · Carcinogenicity Suspected of causing cancer. · STOT-single exposure May cause respiratory irritation.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

Aquatic toxicity:

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

EC50 / 72h | 5.4 mg/l (alga (Süsswasser))

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(Contd. of page 7) 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) 24.3 mg/l /(70%) (activa sludge) EC50 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:		
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		

· 12.3 Bioaccumulative potential

Degradation (Readily biodegradable)

· Partition o	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: · vPvB: The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII. The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.

· 12.6 Endocrine disrupting properties

The product does not contain substances with 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.

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.

GB



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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)

· 14.3 Transport hazard class(es)

· ADR

· IMDG, IATA



· Class 5.2 (P1) Organic peroxides.

· Label

· IMDG, IATA



· Class 5.2 Organic peroxides.

 Label 5.2

· 14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards: Not applicable.

· 14.6 Special precautions for user Warning: Organic peroxides.

Hazard identification number (Kemler code):

D 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.

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

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 125 ml 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 Code: F0 Excepted quantities (EQ)

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

· 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.

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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 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.

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.

- · 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.

Flammable liquid and vapour. · Relevant phrases H226

> H242 Heating may cause a fire.

H271 May cause fire or explosion; strong oxidiser.

May intensify fire; oxidiser. H272 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.

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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ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

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 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

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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31



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Trade name: PEROXAN A-50 M

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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 2
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 2: Carcinogenicity – Category 2
Carc. 2: Carcinogenicity – 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 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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