

Printing date 03.04.2024 Version: 9 (replaces version 8) Revision: 16.02.2023

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

· 1.1 Product identifier

PEROXAN PB-50 A · 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

H242 Heating may cause a fire. Org. Perox. C Skin Irrit. 2 H315 Causes skin irritation. Eve Irrit. 2 H319 Causes serious eve irritation. Skin Sens. 1 H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life. Aquatic Acute 1

Aguatic Chronic 3 H412 Harmful 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.

Hazard pictograms

GHS02 GHS07 GHS09

· Signal word Danger

· Hazard-determining

components of labelling: tert-butyl perbenzoate

2,4-Pentadione, peroxide

· Hazard statements H242 Heating may cause a fire. H315 Causes skin irritation.

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

H410 Very toxic to aquatic life with long lasting effects.

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

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

accelerators (e. g. heavy metal compounds and amines). Keep only in original packaging.

P234 P264 Wash thoroughly after handling. P273 Avoid release to the environment

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

protection.

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

present and easy to do. Continue rinsing. Protect from sunlight.

P410 P411+P235

Store at temperatures not exceeding +30°C. Keep cool.

P420 Store separately.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

2.3 Other hazards

· Results of PBT and vPvB assessment

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



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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 %	30-50%
CAS: 614-45-9 EINECS: 210-382-2 Reg-No.: 01-2119513317-46	tert-butyl perbenzoate Org. Perox. C, H242; Aquatic Acute 1, H400; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	25-30%
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	10-25%
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	5-10%
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%

Additional information:

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General information:

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. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

· 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!

GB -



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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:

Ensure adequate ventilation.

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

disposal.

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

regulations.

· 6.4 Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

In case of large spillage the environmental authority should be informed

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

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

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

Use only in well ventilated areas.

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

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

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

Avoid shock and friction.



Do not smoke.

· Information about fire - and explosion protection:

Protect from heat.

Prevent impact and friction.

Fumes can combine with air to form an explosive mixture.



Wear shoes with conductive soles.



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

· 7.2 Conditions for safe storage, including any incompatibilities

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.

 Recommended storage temperature (To maintain

quality): · Storage class: 5.2

0 +30 °C

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· 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	
Г	7722-84-1 hydrogen peroxide solution	

7722-84-1 hydrogen peroxide solution

WEL (Great Britain)	Short-term value: 2.8 mg/m³, 2 ppm
	Long-term value: 1.4 mg/m³, 1 ppm

·DNELs

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

Dermal	DNEL Longterm System	467 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	32.6 mg/m3 (Worker)

614-45-9 tert-butyl perbenzoate

Dermal	DNEL Longterm System	17.5 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	24.7 mg/m3 (Worker)

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

Dermal	DNEL Longterm System	5 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	4.41 mg/m3 (Worker)

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

Dermal	DNEL Longterm System	12 mg/kg bw/day (Worker)
Inhalative	DNFL 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)
PNEC Marinewater	0.2 mg/l (AF 500)

614-45-9 tert-butyl perbenzoate

PNEC Marinewater sed	0.028 mg/kg sed dw
PNEC Freshwater	0.01 mg/l (AF 10)
PNEC Freshwater sed	0.28 mg/kg sed dw
PNEC Soil	0.049 mg/kg soil dw
PNEC STP	0.6 mg/l (AF 10)
PNFC Marinewater	0.00101 mg/l (AF 100)

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

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)

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)

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7722-84-1 hydrogen peroxide solution

PNEC Marinewater sed | 0.047 mg/kg sed dw 0.013 mg/l (AF 50) PNEC Freshwater 0.047 mg/kg sed dw PNEC Freshwater sed PNFC 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.

· 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.

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 Fluid · Colour: colourless - yellowish

· Odour: Characteristic Odour threshold: Not determined.

Not applicable. · Melting point/freezing point: · Boiling point or initial boiling point and boiling range Not applicable. Flammability May cause fire.

· Lower and upper explosion limit

· Lower: Not determined. · Upper: Not determined. · Flash point: > SADT · Decomposition temperature: > +60 °C (SADT)

· pH Not determined.

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 Kinematic viscosity Not determined. Dynamic at 20 °C: 15 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: 1.05 g/cm³ 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.

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes · Explosives

Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in	
contact with water	Void

· Oxidising liquids Void · Oxidising solids Void

· Organic peroxides Heating may cause a fire. Void

Corrosive to metals Desensitised explosives Other safety characteristics

4.7 - 5.0 % 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.

Void

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.

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• 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 Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:				
123-42-2 4-hydroxy-4-methylpentan-2-one				
Oral	LD50	3,002 mg/kg (rattus)		
614-45-9 tert-butyl perbenzoate				
Oral	LD50	4,838 mg/kg (rattus)		
Dermal	LD50	3,817 mg/kg (rattus)		
Inhalative	LC100 4h	4.9 mg/l (rattus)		
	LC0 / 4h	1.01 mg/l (rattus)		
13784-51-5 2,4-Pentadione, peroxide				
Oral	LD50	>2,000 mg/kg (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 skin irritation.

· Serious eye damage/irritation Causes serious eye irritation.

· Respiratory or skin

sensitisation May cause an allergic skin reaction.

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

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)

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)

614-45-9 tert-butyl perbenzoate

Degradation (Readily biodegradable) (OECD 301 D)

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

Degradation (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 coefficient: nOctanol/water: [Log Kow]			
123-42-2 4-hydroxy-4-methylpentan-2-one	-0,09 (20°C)		
614-45-9 tert-butyl perbenzoate	3 (25°C)		
13784-51-5 2,4-Pentadione, peroxide	1,1 (20°C)		

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 123-54-6
 pentane-2,4-dione
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 7722-84-1
 hydrogen peroxide solution
 -1,57 (20°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 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 The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Remark: Very toxic for fish Harmful to fish

· Additional ecological information:

• General notes: Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms Harmful to aquatic organisms

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 conta

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	UN3103
· 14.2 UN proper shipping name · ADR	UN3103 ORGANIC PEROXIDE TYPE C, LIQUID (tert-BUTYL PEROXYBENZOATE, ACETYL ACETONE PEROXIDE),
·IMDG	ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE C, LIQUID (tert-BUTYL PEROXYBENZOATE, ACETYL ACETONE PEROXIDE), MARINE POLLUTANT
· IATA	ORGANIC PEROXIDE TYPE C, LIQUID (tert-BUTYL PEROXYBENZOATE, ACETYL ACETONE PEROXIDE)

· 14.3 Transport hazard class(es)

· ADR





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

·IMDG





ClassLabel5.2 Organic peroxides.5.2

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· IATA



Class 5.2 Organic peroxides.

· 14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards: Product contains environmentally hazardous substances: tert-BUTYL

PEROXYBENZOATE · 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. SG35 Stow "separated from" SGG1-acids · Segregation Code SG36 Stow "separated from" SGG18-alkalis.

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

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 25 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) 25 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

Poisons Act

7722-84-1 hydrogen peroxide solution 12%

Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

· Regulated explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances

- ANNEX I None of the ingredients is listed.

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

E1 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 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.

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· 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.

· Relevant phrases Flammable liquid and vapour. H226

H242 Heating may cause a fire.

May cause fire or explosion; strong oxidiser. H271

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 H319 Causes serious eye irritation.

H331 Toxic if inhaled. H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361d Suspected of damaging the unborn child.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

· Contact: Tel: +49 2871 9902-0

E-mail: mail@pergan.com

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

IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative VPUS: Very Persistent and very Bloaccumulative Flam. Liq. 3: Flammable liquids – Category 3

Ox. Liq. 1: Oxidizing liquids – Category 1

Org. Perox. C: Organic peroxides – Type C/D

Org. Perox. D: Organic peroxides – Type C/D

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1

Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
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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