

Printing date 29.06.2023 Version: 4 (replaces version 3) Revision: 26.06.2023

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

· 1.1 Product identifier

PEROXAN ME-50 LM4 · 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

Environment protection / Security of labour

Competent person:

* Sales Manager Germany: Mr. Ansgar Pappenheim, e-mail: a.pappenheim@pergan.com * Export Sales Manager: Mr. Dr. Thomas Philipps, e-mail: dr.philipps@pergan.com * Environment protection / : Mr. Christoph Wilting, e-mail: c.wilting@pergan.com

Security of labour

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. D Acute Tox. 4 H332 Harmful if inhaled.

Skin Corr. 1B H314 Causes severe skin burns and eve 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.

Aguatic 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.



Danger







GHS02 GHS05 GHS07 GHS08

· Signal word

· Hazard-determining

· Hazard statements

components of labelling:

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

tert-butyl hydroperoxide hydrogen peroxide solution H242 Heating may cause a fire. H332 Harmful 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.

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 P405 Store locked up.

P410 Protect from sunlight.

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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 REACH, annex XIII.
• **vPvB:**• The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

CAS: 1338-23-4	Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	30-40%
EC number: 700-954-4 Reg-No.: 01-2119514691-43	Org. Perox. D, H242; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332	-
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 Specific concentration limits: Eye Dam. 1; H318: C ≥ 1 % Skin Sens. 1; H317: C ≥ 0,1 % STOT SE 3; H335: C ≥ 5 %	2,5-5%
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; C ≥ 35 % Ox. Liq. 1; H271: C ≥ 70 % Ox. Liq. 2; H272: 50 % ≤ C < 70 %	1-2,5%
CAS: 107-41-5 EINECS: 203-489-0 Index number: 603-053-00-3 Reg-No.: 01-2119539582-35	2-methylpentane-2,4-diol Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-2,5%

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: Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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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

· 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:



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.

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.

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). While using do not eat, drink or smoke.

Do not generate flames or sparks.

Keep product and emptied container away from heat and sources of ignition.

Avoid shock and friction.

Take precautionary measures against static discharges.



Do not smoke.

· Information about fire - and explosion protection:

Protect from heat.

Protect against electrostatic charges.

Prevent impact and friction.

Use explosion-proof apparatus / fittings and spark-proof tools.

Fumes can combine with air to form an explosive mixture.



Wear shoes with conductive soles.

Formation of flammable or explosive gas/air-mixtures is possible



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

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Keep ignition sources away - Do not smoke.

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 \cdot 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.

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): 0 +30 °C

Storage class: 5.2

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

0.1 Outil of parameters							
Ingredients with limit values that require monitoring at the workplace:							
	7722-84-1 hydrogen peroxide solution						
			ie: 3 mg/m³, 2 ppm				
			alue: 1,5 mg/m³, 1 ppm				
WEL (Gre			alue: 2,8 mg/m³, 2 ppm lue: 1,4 mg/m³, 1 ppm				
107_41_5 3		ntane-2,4-diol	<u> </u>				
OEL (Irela	, ,	,	ie: 125 mg/m³, 25 ppm				
`			ie: 123 mg/m³, 25 ppm				
WEE (010)			e: 123 mg/m³, 25 ppm				
· DNELs							
	Reaction n	nass of butan	e-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane				
Dermal			1,43 mg/kg bw/day (Worker)				
Inhalative	DNEL Acut		7,55 mg/m3				
		•	2,52 mg/m3 (Worker)				
75-91-2 te	_	droperoxide					
Dermal			0,21 mg/kg bw/day (Worker)				
Inhalative	Inhalative DNEL Acute Systemic DNEL Acute Local DNEL Longterm System DNEL Longterm Local		85,2 mg/m3 (Worker)				
			28,4 mg/m3 (Worker)				
			2,2 mg/m3 (Worker)				
			0,58 mg/m3 (Worker)				
		peroxide solu	tion				
	DNEL Long		1,4 mg/m3 (Worker)				
107-41-5 2		ntane-2,4-diol					
Dermal			42 mg/kg bw/day (Worker)				
Inhalative	Inhalative DNEL Longterm System		44,4 mg/m3 (Worker)				
·PNECs							
	1338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane						
PNEC Marinewater sed 0,009 mg/		ed 0,009 mg/k	g sed dw				
PNEC Freshwater 0,006 mg/		0,006 mg/l	I (AF 1.000)				
1 -		, ,	088 mg/kg sed dw				
'		, ,	,014 mg/kg soil dw				
			1,2 mg/l (AF 10)				
PNEC Ma		_	(AF 10.000)				
75-91-2 tert-butyl hydroperoxide							
PNEC Marinewater sed 0,001 mg/kg sed dw							

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PNEC Freshwater 0,002 mg/l (AF 1.000) 0 mg/l (AF 10.000) PNFC Seawater 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)

7722-84-1 hydrogen peroxide solution PNEC Marinewater sed | 0,047 mg/kg sed dw 0,013 mg/l (AF 50) PNFC Freshwater PNFC Freshwater sed 0,047 mg/kg sed dw PNEC Soil 0,002 mg/kg soil dw PNFC STP 4,66 mg/l (AF 100) **PNEC Marinewater** 0,013 mg/l (AF 50)

107-41-5 2-methylpentane-2,4-diol

PNEC Marinewater sed 0,159 mg/kg sed dw (-) 0,429 mg/l (AF 1.000) PNEC Freshwater PNFC Freshwater sed 1,59 mg/kg sed dw (-) PNEC Soil 0,066 mg/kg soil dw (-) PNEC STP 20 mg/l (AF 10) **PNEC Marinewater** 0,043 mg/l (AF 10.000)

· 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: Not necessary if room is well-ventilated.

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

· 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

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SECTION 9: Physical and chemical properties

· 9.1	Informatic	on on I	basic pl	hysical	and o	chemica	I properti	es

General Information

· Colour: Colourless · Odour: Characteristic Odour threshold: Not determined. · Melting point/freezing point: Not applicable. Boiling point or initial boiling point and boiling range Not applicable. Flammability Not applicable.

Lower and upper explosion limit

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

· pH

· Viscosity:

· Kinematic viscosity Not determined. · Dynamic at 20 °C: 24 mPas

· Solubility

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

· Vapour pressure:

Density and/or relative density · Density at 20 °C:

1,12 g/cm³ Relative density Not determined. 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

Void

Void

Void

mixtures are possible.

Undetermined.

not determined

Not determined.

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes · Explosives Flammable gases

· Aerosols Void Void Oxidising gases · 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 Substances and mixtures, which emit flammable gases in

contact with water Void · Oxidising liquids Void · Oxidising solids Void

· Organic peroxides Heating may cause a fire.

· Corrosive to metals Void Desensitised explosives Void Other safety characteristics

8,9 - 9,4 % · Active oxygen

SECTION 10: Stability and reactivity

· 10.1 Reactivity 10.2 Chemical stability No further relevant information available.

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

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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. · 10.4 Conditions to avoid 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

· LD/LC50 values relevant for classification:

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

· Acute toxicity Harmful if inhaled.

1338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane					
Oral	LD50	1.017 mg/kg (rattus)			
75-91-2	tert-butyl l	nydroperoxide	Π		

Oral LD50 805 mg/kg /(70%) (rattus) Dermal LD50 633 mg/kg /(70%) (cuniculosus) Inhalative LC50 / 4h 1,2 mg/l /(70%) (rattus)

107-41-5 2-methylpentane-2,4-diol

Oral LD50 >2.000 mg/kg (rattus) Dermal LD50 >2.000 mg/kg (cuniculosus)

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.

· Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. 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

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

Aquatic toxicity:

1338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane

LC50 / 96h | 44,2 mg/l (-)

75-91-2 tert-butyl hydroperoxide

EC50 / 72h 2,1 mg/l /(70%) (selenastrum capricornutum) LC50 / 96h 42,3 mg/l /(70%) (pimephales promelas) FC50 24,3 mg/l /(70%) (activa sludge) EC50 / 48h | 20 mg/l /(70%) (daphnia magna)

107-41-5 2-methylpentane-2,4-diol

LC50 / 96h 8.510 mg/l (gambusia affinis)

- 12.2 Persistence and degradability
- Degree of elimination: · Classification:

1338-23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane

Degradation (Readily biodegradable) (OECD 301 B)

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(Contd. of page 7) 75-91-2 tert-butyl hydroperoxide Degradation (Not readily biodegradable) (OECD 301 D) 7722-84-1 hydrogen peroxide solution Degradation (Readily biodegradable) 107-41-5 2-methylpentane-2,4-diol Degradation (Readily biodegradable) (OECD 301 F) 12.3 Bioaccumulative notential

Talo Biododanialativo potential						
· Partition	· Partition coefficient: nOctanol/water: [Log Kow]					
1338-23-4	Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	2,04 (25°C)				
75-91-2	tert-butyl hydroperoxide	0,85 (30 °C)				
7722-84-1	hydrogen peroxide solution	-1,57 (20°C)				
107-41-5	2-methylpentane-2,4-diol	< 1				
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

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

· 12.6 Endocrine disrupting

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

12.7 Other adverse effects

Additional ecological information:

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

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation



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

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

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

number.

· Uncleaned packaging:

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

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA UN3105

14.2 UN proper shipping name

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

KETONE PEROXIDE(S)) · IMDG, IATA

ORGANIC PEROXIDÈ TYPE D, LIQUID (METHYL ETHYL KETONE

PEROXIDE(S))

· 14.3 Transport hazard class(es)

· ADR



5.2 (P1) Organic peroxides.

· Label

IMDG, IATA



Class 5.2 Organic peroxides.

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· Label 5.2

· 14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant:

• 14.6 Special precautions for user Warning: Organic peroxides

Hazard identification number (Kemler code):
Stowage Category

Stowage Code SW1 Protected from sources of heat.
Segregation Code SG35 Stow "separated from" SGG1-acids

SG36 Stow "separated from" SGG18-alkalis.

SG72 See 7.2.6.3.2.

· 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 2
· Tunnel restriction code D

· RID / GGVSEB: like ADR

·IMDG

Limited quantities (LQ)
 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

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.

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· Relevant phrases H226 Flammable liquid and vapour.

H242 Heating may cause a fire. H271 May cause fire or explosion; strong 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.

H330 Fatal if inhaled. H332 Harmful if inhaled

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

H351 Suspected of causing cancer.

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

· Department issuing SDS: Environment protection / Security of labour

Contact: Tel: +49 2871 9902-0 E-mail: mail@pergan.com

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Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International

Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
C50: Lethal concentration 50 percent

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. 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. 1B: Skin corrosion/irritation – Category 1B Skin Corr. 1C: Skin corrosion/irritation – Category 1C Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

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: 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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