

Printing date 29.06.2023 Version: 12 (replaces version 11) Revision: 26.06.2023

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

· 1.1 Product identifier

PEROXAN BU M2 · 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

from:

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

H226 Flammable liquid and vapour. Flam. Liq. 3 Org. Perox. E H242 Heating may cause a fire. Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction. H304 May be fatal if swallowed and enters airways. Asp Tox 1

Aguatic Chronic 2 H411 Toxic to aguatic 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 GB CLP regulation.







GHS02 GHS07 GHS08 GHS09

· Signal word Danger

· Hazard-determining

components of labelling:

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated

di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide

tert-butyl alpha, alpha-dimethylbenzyl peroxide

· Hazard statements H226 Flammable liquid and vapour. H242 Heating may cause a fire.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways. H411 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

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

accelerators (e. g. heavy metal compounds and amines).

P234 Keep only in original packaging. P243 Take action to prevent static discharges. P264 Wash thoroughly after handling. P273 Avoid release to the environment.

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

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

water.

P405 Store locked up. P410 Protect from sunlight.

P411+P235 Store at temperatures not exceeding +30°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

Dangerous components:		
CAS: 3457-61-2 EINECS: 222-389-8 Index number: 617-007-00-5 Reg-No.: 01-2119969063-35	tert-butyl alpha,alpha-dimethylbenzyl peroxide Flam. Liq. 3, H226; Org. Perox. E, H242; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	40-50%
CAS: 6731-36-8 EINECS: 229-782-3 Reg-No.: 01-2119735694-30	di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide Org. Perox. B, H241	20-25%
CAS: 93685-81-5 EINECS: 297-629-8 Reg-No.: 01-2119490725-29	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Alternative CAS number: 13475-82-6 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	20-25%
CAS: 98-83-9 EINECS: 202-705-0 ndex number: 601-027-00-6	2-phenylpropene Flam. Liq. 3, H226; Aquatic Chronic 2, H411; Eye Irrit. 2, H319; STOT SE 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥ 25 %	0.1-2.5%
CAS: 98-86-2 EINECS: 202-708-7 ndex number: 606-042-00-1	acetophenone Acute Tox. 4, H302; Eye Irrit. 2, H319	0.1-2.5%
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 %	0-1%

Additional information:

SECTION 4: First aid measures

4.1 Description of first aid measures
 General information:

+

Take care of personal protection for the first aider.

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

• After inhalation: 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 thoroughl

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.

• After swallowing: If symptoms persist consult doctor.

 4.2 Most important symptoms and effects, both acute and

delayed

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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:

• **Protective equipment:**• **Additional information**Do not inhale explosion gases or combustion gases.

Cool endangered receptacles with water spray.

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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.

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.

Keep ignition sources away - Do not smoke.

· 7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by

Pay attention to the special requirements of your local autorithies for storing dangerous goods.

storerooms and receptacles:

· Storage:

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.

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Store away from foodstuffs, drinks and feeding stuffs.

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Further information about storage conditions:

Protect from heat and direct sunlight.

Protect from contamination.

Storage in a collecting room is required.

Recommended storage temperature (To maintain

quality):

+5 +30 °C

· 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:				
98-83-9 2-phenylpropene				
WEL (Great Brita	in) Short-term value: 491 mg/m³, 100 ppm Long-term value: 246 mg/m³, 50 ppm			
IOELV (EU)	Short-term value: 492 mg/m³, 100 ppm Long-term value: 246 mg/m³, 50 ppm			
· DNELs				
6731-36-8 di-tert	6731-36-8 di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide			
Dermal DNEL	Longterm System 2 mg/kg bw/day (Worker)			
Inhalative DNEL	Longterm System 1.4 mg/m3 (Worker)			
98-86-2 acetoph	98-86-2 acetonhenone			

Inhalative DNEL Longterm System 1.23 mg/m3 (Worker)

70 01 2 tolt batyl llyaroperoxide				
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)		

Dermal DNEL Longterm System 0.35 mg/kg bw/day (Worker)

·PNECs

6731-36-8 di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide

PNEC Marinewater sed	0.01 mg/kg sed dw (AF 500)
PNEC Freshwater sed	0.102 mg/kg sed dw (AF 50)
PNEC Soil	5.29 mg/kg soil dw (AF 10)
PNEC STP	100 mg/l (AF 10)

98-86-2 acetophenone

•	
PNEC Marinewater sed	0.113 mg/kg sed dw (-)
PNEC Freshwater	0.086 mg/l (AF 1.000)
PNEC Freshwater sed	1.13 mg/kg sed dw (-)
PNEC Soil	0.175 mg/kg soil dw (-)
PNEC STP	34.6 mg/l (AF 10)
PNEC Marinewater	0.009 mg/l (AF 10.000)

75-91-2 tert-butyl hydroperoxide

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)

· 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.

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Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Store protective clothing separately

Avoid close or long term contact with the skin. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working

Use skin protection cream for skin protection. Be sure to clean skin thoroughly after work and before breaks.

· Respiratory protection: 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

Not applicable.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

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

Flammability

Lower and upper explosion limit

· Lower: Not determined. · Upper: Not determined. · Flash point: 60 °C

Decomposition temperature: ≥ 55 (SADT) °C · pH Not determined.

Viscosity:

· Kinematic viscosity Not determined. · Dynamic at 20 °C: 10 mPas

Solubility

Undetermined. · water: · Partition coefficient n-octanol/water (log value) not determined Not determined. Vapour pressure:

Density and/or relative density

0.875 g/cm³ · Density at 20 °C: Relative density Not determined. · Vapour density Not determined.

9.2 Other information

· Appearance:

· Form: Fluid

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

· Ignition temperature: Product is not selfigniting

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 Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Change in condition · Evaporation rate Not determined. · Information with regard to physical hazard classes Void · Explosives Flammable gases Void Aerosols Void Oxidising gases Void · Gases under pressure Void Flammable liquids Flammable liquid and vapour. · 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

Void

Void

6.2 - 6.4 %

SECTION 10: Stability and reactivity

· 10.1 Reactivity

· Active oxygen

10.2 Chemical stability

Organic peroxides

Corrosive to metals

Desensitised explosives

Other safety characteristics

· Thermal decomposition / conditions to be avoided: No further relevant information available

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.

Heating may cause a fire.

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

· 10.5 Incompatible materials:

No further relevant information available.

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.

Self-accelerating decomposition at SADT.

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 to	xicity	based on available data, the classification chiefla are not met.	
· LD/LC5	0 values	relevant for classification:	
3457-61-2	tert-buty	yl alpha,alpha-dimethylbenzyl peroxide	
Oral	LD50	4,700 mg/kg (rattus)	
Dermal	LD50	>2,000 mg/kg (rattus)	
Inhalative	LC50	>1.2 mg/l (rattus)	
6731-36-8 di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide			
Oral	LD50	>2,000 mg/kg (rattus)	
Dermal	LD50	>2,000 mg/kg (rattus)	
93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated			
Oral	LD50	>5,000 mg/kg (rattus)	
		·	(Contd. on page



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(Contd. of page 6) 98-83-9 2-phenylpropene Oral LD50 4,900 mg/kg (rattus) 98-86-2 acetophenone Oral LD50 2,081 mg/kg (rattus) 75-91-2 tert-butyl hydroperoxide

805 mg/kg /(70%) (rattus) Oral LD50 LD50 633 mg/kg /(70%) (cuniculosus) Dermal Inhalative LC50 / 4h 1.2 mg/l /(70%) (rattus)

· Skin corrosion/irritation Causes skin irritation.

Based on available data, the classification criteria are not met. Serious eye damage/irritation

· Respiratory or skin

sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met. · Carcinogenicity Based on available data, the classification criteria are not met. 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 May be fatal if swallowed and enters airways.

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity

riquiano tornonj.				
93685-81-5 Hydrocarbons C4	1 3-butadiene-free	polymd triisob	outviene fraction	hydrogenated

EC50 / 48h >0.04 mg/l (daphnia) IC50 / 72h >0.04 mg/l (alga) 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)

12.2 Persistence and degradability

Degree of elimination: · Classification:

3457-61-2 tert-butyl alpha, alpha-dimethylbenzyl peroxide

Degradation (Not readily biodegradable) (OECD 301 F)

6731-36-8 di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide

Degradation (Evidence for inherent biodegradability.) (OECD 301 D)

93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated

Degradation (Not readily biodegradable)

98-86-2 acetophenone

Degradation (Readily biodegradable) (OECD 301 C)

75-91-2 tert-butyl hydroperoxide

Degradation (Not readily biodegradable) (OECD 301 D)

12.3 Bioaccumulative potential

Partition coefficient: nOctanol/water: [Log Kow] 3457-61-2 tert-butyl alpha,alpha-dimethylbenzyl peroxide		coefficient: nOctanol/water: [Log Kow]	
		tert-butyl alpha,alpha-dimethylbenzyl peroxide	4,4 (25°C)
ľ	98-86-2	acetophenone	1,65 (20°C)
Г	75-91-2	tert-butyl hydroperoxide	0,85 (30 °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 UK REACH, annex XIII. · PBT: · 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

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· Additional ecological information:

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

Very toxic for 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

· 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	UN3107
· 14.2 UN proper shipping name	
· ADR	UN3107 ORGANIC PEROXIDE TYPE E, LIQUID (1,1-DI-(tert-
	BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE, tert-BUTYL CUMYL
	PEROXIDE), ENVIRONMENTALLY HAZARDOUS
· IMDG	ORGANIC PEROXIDE TYPE E, LIQUID (1,1-DI-(tert-BUTYLPEROXY)-
	3,3,5-TRIMETHYLCYCLOHEXANE, tert-BUTYL CUMYL PEROXIDE),
	MARINE POLLUTANT
· IATA	ORGANIC PEROXIDE TYPE E, LIQUID (1,1-DI-(tert-BUTYLPEROXY)-
	3,3,5-TRIMETHYLCYCLOHEXANE, tert-BUTYL CUMYL PEROXIDE)
. 44.2 Transport barard alass/ss\	

14.3 Transport hazard class(es)

· ADR





· Class 5.2 (P1) Organic peroxides. Label

· IMDG





· Class 5.2 Organic peroxides. Label

·IATA



· Class 5.2 Organic peroxides. · Label

· 14.4 Packing group

· ADR, IMDG, IATA Void

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

· 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):

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· EMS Number: F-J,S-R · Stowage Category D

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

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:

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

Not permitted as Excepted Quantity · Transport category

Tunnel restriction code like ADR

RID / GGVSEB:

· 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
- Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for

the application of upper-tier

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.

· Relevant phrases H226 Flammable liquid and vapour.

H241 Heating may cause a fire or explosion.

H242 Heating may cause a fire. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

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

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H319 Causes serious eye irritation.

H330 Fatal if inhaled.

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.

H413 May cause long lasting harmful effects to aquatic life.

· Department issuing SDS: Environment protection / Security of labour

Contact: Tel: +49 2871 9902-0

E-mail: mail@pergan.com

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

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 IATA: International Air Transport Association

IAI A: 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

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Org. Perox. B: Organic peroxides – Type B Org. Perox. E: Organic peroxides – Type E/F Org. Perox. F: Organic peroxides – Type E/F

Org. Perox. F: Organic peroxides – Type E/F
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 10: Skin corrosion/irritation – Category 1C
Skin Irrit. 2: Skin corrosion/irritation – Category 1C
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 2: Carcinopenicity – Category 2

Muta. 2. Germ cell mutagementy — Category 2
Carc. 2: Carcinogenicity — Category 2
STOT SE 3: Specific target organ toxicity (single exposure) — Category 3
Asp. Tox. 1: Aspiration hazard — Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard — Category 4
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard — Category 4

* Data compared to the previous version altered.

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