

Printing date 03.04.2024 Version: 11 (replaces version 10) Revision: 27.11.2023

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

· 1.1 Product identifier

PEROXAN CND-50 WN-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

Environment protection / Security of labour

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. F H242 Heating may cause a fire. Carc. 1B H350 May cause cancer.

STOT SE 1 H370 Causes damage to the central nervous system and the visual organs.

2.2 Label elements

· Hazard pictograms

· Labelling according to

Regulation (EC) No 1272/2008

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

**GHS02 GHS08** 

· Signal word Danger

· Hazard-determining

components of labelling:

1-methyl-1-phenylethyl peroxyneodecanoate

methanol

H242 Heating may cause a fire. · Hazard statements

H350 May cause cancer.

H370 Causes damage to the central nervous system and the visual organs.

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

smoking.

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

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

P234 Keep only in original packaging. P264 Wash thoroughly after handling.

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

P332+P313 If skin irritation occurs: Get medical advice/attention.

P405 Store locked up. P410 Protect from sunlight.

P411+P235 Store at temperatures not exceeding -10°C. Keep cool.

P420 Store separately.

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

regulations.

· Additional information: Restricted to professional users.

2.3 Other hazards

· Results of PBT and vPvB assessment

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

Determination of endocrine-

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

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#### SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

| Dangerous components:  |   |        |
|--|---|--------|
| CAS: 26748-47-0<br>EINECS: 247-956-7<br>Reg-No.: 01-2120767069-44                            | 1-methyl-1-phenylethyl peroxyneodecanoate<br>Org. Perox. D, H242  | 40-50% |
| CAS: 67-56-1<br>EINECS: 200-659-6<br>Index number: 603-001-00-X<br>Reg-No.: 01-2119433307-44 | methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: $3 \% \le C < 10 \%$ | 10-20% |
| CAS: 9005-65-6   | Polyoxyethylensorbitanmonooleate<br>Aquatic Chronic 3, H412   | 1-2,5% |
| CAS: 98-82-8<br>EINECS: 202-704-5<br>Index number: 601-024-00-X<br>Reg-No.: 01-2119473983-24 | Cumene Flam. Liq. 3, H226; Carc. 1B, H350; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335  | 0,1-1% |
| · 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: 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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms

persist.

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.

• After swallowing: Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and

delayed

4.3 Indication of any immediate medical attention and special

medical attention and specia 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

· 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.

Wear breathing apparatus with filter A during decomposition of materials.

Wear protective equipment. Keep unprotected persons away.

• 6.2 Environmental precautions: Dilute with plenty of water.

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Do not allow to enter sewers/ surface or ground water.

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· 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

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

disposal.

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

regulations.

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

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

In case of large spillage the environmental authority should be informed.

#### **SECTION 7: Handling and storage**

## · 7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

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

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

Use only in well ventilated areas.

Before break and at the end of work hands should be thoroughly washed.

Only use tools made of suitable materials (e. g. polyethylene or stainless steel).

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

metal compounds and amines). 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

Storage:

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

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle. Prevent any seepage into the ground.

Use only receptacles specifically permitted for this substance/product.

· Information about storage in one common storage facility:

Do not store or park organic peroxide together with heavy metal compounds and amines.

Store away from foodstuffs, drinks and feeding stuffs.

Further information about storage conditions:

Keep container tightly sealed. Protect from heat and direct sunlight.

Protect from contamination.

Store under lock and key and out of the reach of children.

Storage in a collecting room is required.

 Recommended storage temperature (To maintain quality):

-25 .... -15 °C

· Storage class:

5.2

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· 7.3 Specific end use(s) No further relevant information available. (Contd. of page 3)

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

#### · 8.1 Control parameters

| Ingredients with limit values that require monitoring at the workplace: |   |  |
|---|---|--|
| 67-56-1 methanol  |   |  |
| OEL (Ireland)   | Long-term value: 260 mg/m³, 200 ppm<br>Sk, IOELV                                      |  |
| IOELV (EU)  | Long-term value: 260 mg/m³, 200 ppm<br>Skin   |  |
| WEL (Great Britain)   | Short-term value: 333 mg/m³, 250 ppm<br>Long-term value: 266 mg/m³, 200 ppm<br>Sk     |  |
| 98-82-8 Cumene  |   |  |
| OEL (Ireland)   | Short-term value: 250 mg/m³, 50 ppm<br>Long-term value: 50 mg/m³, 10 ppm<br>Sk, IOELV |  |
| IOELV (EU)  | Short-term value: 250 mg/m³, 50 ppm<br>Long-term value: 50 mg/m³, 10 ppm<br>Skin      |  |
| WEL (Great Britain)   | Short-term value: 250 mg/m³, 50 ppm<br>Long-term value: 125 mg/m³, 25 ppm<br>Sk       |  |
| DNELs   |   |  |
| 26748-47-0 1-methyl-1-phenylethyl peroxyneodecanoate                    |   |  |
| Dermal DNEL Longterm System 1,4 mg/kg bw/day (Worker)                   |   |  |

| Dermal     | <b>DNEL Longterm</b> | System | 1,4 mg/kg | bw/day (Worke |
|------------|----------------------|--------|-----------|---------------|
| Inhalative | DNEL Longterm        | System | 4,93 mg/m | 3 (Worker)    |

#### 67-56-1 methanol

| Dermal     | DNEL Longterm System | 20 mg/kg bw/day (Worker) |
|------------|----------------------|--------------------------|
| Inhalative | DNEL Longterm System | 130 mg/m3 (Worker)       |

#### 98-82-8 Cumene

| Dermal     | DNEL Longterm System | 15,4 mg/kg bw/day (Worker) |
|------------|----------------------|----------------------------|
| Inhalative | DNEL Longterm System | 100 mg/m3 (Worker)         |

#### · PNECs

#### 26748-47-0 1-methyl-1-phenylethyl peroxyneodecanoate

PNEC Marinewater sed | 0,00376 mg/kg sed dw (-) 0,0038 mg/l (AF 1.000) PNEC Freshwater PNEC Freshwater sed 0,0376 mg/kg sed dw (-) PNEC Soil 0,00529 mg/kg soil dw (-) 1,4 mg/l (AF 10) PNEC STP **PNEC Marinewater** 0,00038 mg/l (AF 10.000)

98-82-8 Cumene

PNEC Marinewater sed | 0,322 mg/kg sed dw (-) 0,035 mg/l (AF 10) PNEC Freshwater PNEC Freshwater sed 3,22 mg/kg sed dw (-) PNEC Soil 0,624 mg/kg soil dw (-) PNEC STP 200 mg/l (AF 10) **PNEC Marinewater** 0,004 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.

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.

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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

Whitish

Characteristic

Not determined.

Not determined. Not determined.

Emulsifiable.

not determined Not determined.

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.

Tightly sealed goggles

· Body protection:

· Eye/face protection



Protective work clothing

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

9.1 Information on basic physical and chemical properties

· General Information

Odour threshold:

· Colour: · Odour:

· Melting point/freezing point: Not applicable. Boiling point or initial boiling point and boiling range Not applicable. Not applicable.

Flammability

Lower and upper explosion limit

Not determined · Lower: Not determined. · Upper: · Flash point: Not determined +10 °C (SADT) Decomposition temperature:

· pH Not determined.

Viscosity:

Kinematic viscosity

· Dynamic: Solubility

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

· Vapour pressure: Density and/or relative density

Density at 20 °C: · Relative density

1,00 g/cm3 Not determined Vapour density Not determined.

9.2 Other information

No further relevant information available.

· Appearance:

· Form:

emulsion

· Important information on protection of health and environment,

and on safety. Ignition temperature:

Product is not selfigniting.

· Explosive properties:

Product does not present an explosion hazard.

Change in condition

Not determined.

· Evaporation rate

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|   | · ·                       |  |
|---|---------------------------|--|
| · Information with regard to physical hazard classes  |                           |  |
| 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 | s 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                          |                           |  |
| · Active oxygen                                       | 2,6 - 2,7 %               |  |

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

· 10.1 Reactivity

· 10.2 Chemical stability

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

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:

Self-accelerating decomposition at SADT. 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.

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

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

response plane in place.

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

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

· Acute toxicity Based on available data, the classification criteria are not met.

| · LD/LC5   | · LD/LC50 values relevant for classification:        |                       |  |
|------------|--|-----------------------|--|
| 26748-47   | 26748-47-0 1-methyl-1-phenylethyl peroxyneodecanoate |                       |  |
| Oral       | LD50   | 5.126 mg/kg (rattus)  |  |
| Dermal     | LD50   | >7.940 mg/kg (rabbit) |  |
| 67-56-1 m  | 67-56-1 methanol                                     |                       |  |
| Oral       | LD50   | 1.187 mg/kg (rattus)  |  |
| 98-82-8 C  | 98-82-8 Cumene                                       |                       |  |
| Oral       | LD50   | 2.260 mg/kg (rattus)  |  |
| Dermal     | LD50   | 12.300 mg/kg (rabbit) |  |
| Inhalative | LC50 / 4h  | 24,7 mg/l (mouse)     |  |

Skin corrosion/irritation Based on available data, the classification criteria are not met. · Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

· Carcinogenicity May cause cancer.



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

STOT-single exposure Causes damage to the central nervous system and the visual organs.

STOT-repeated exposure
Aspiration hazard

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

67-56-1 methanol

EC50 / 72h | 22.000 mg/l (algae)

- 12.2 Persistence and degradability
- · Degree of elimination:

· Classification:

26748-47-0 1-methyl-1-phenylethyl peroxyneodecanoate

Degradation (Readily biodegradable) (OECD 301 B)

67-56-1 methanol

Degradation (Readily biodegradable)

98-82-8 Cumene

Degradation (Readily biodegradable)

12.3 Bioaccumulative potential

| · Partition | coefficient: | nOctanol/w | rater: [ | Log Kow] |
|-------------|--------------|------------|----------|----------|
| 00740 47 0  |              |            |          |          |

| 26748-47-0 | 1-methyl-1-phenylethyl peroxyneodecanoate | 3,9 (20°C)   |
|------------|---|--------------|
| 67-56-1    | methanol                                  | -0,77 (20°C) |
| 98-82-8    | Cumene                                    | 3,55 (20°C)  |
| 79-20-9    | methyl acetate                            | 0,18 (20°C)  |

#### · Bioconcentration factor (BCF)

#### 67-56-1 methanol

BCF <10

• 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

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

· 12.6 Endocrine disrupting

properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects No further relevant information available.

Additional ecological information:

General notes:

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.

Recommended cleansing agents:

Water, if necessary together with cleansing agents.

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| SECTION 14: Transport information  |   |
|--|---|
| · 14.1 UN number or ID number<br>· ADR, IMDG   | UN3119  |
| · 14.2 UN proper shipping name<br>· ADR<br>· IMDG  | UN3119 ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (CUMYLPEROXYNEODECANOATE)  |
| INDG   | ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (CUMYLPEROXYNEODECANOATE)   |
| · 14.3 Transport hazard class(es) · ADR  |   |
| ADK  |   |
| · Class<br>· Label   | 5.2 (P2) Organic peroxides.<br>5.2  |
| · IMDG   |   |
| · Class<br>· Label   | 5.2 Organic peroxides.<br>5.2   |
| · IATA<br>· Class<br>· Label   | X<br>X  |
| · 14.4 Packing group<br>· ADR, IMDG  | Void  |
| · 14.5 Environmental hazards:<br>· Marine pollutant:   | No  |
| <ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>Stowage Category</li> <li>Stowage Code</li> </ul> | Warning: Organic peroxides D SW1 Protected from sources of heat.  |
| · Segregation Code   | SW3 Shall be transported under temperature control. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. |
| · 14.7 Maritime transport in bulk according to IMO instr   | uments Not applicable.  |
| · Transport/Additional information:  |   |
| · ADR · Limited quantities (LQ) · Excepted quantities (EQ)   | 0<br>Code: E0<br>Not permitted as Excepted Quantity   |
| · Transport category<br>· Tunnel restriction code  | 1<br>D  |
| · RID / GGVSEB:  | no admission  |
| · IMDG · Limited quantities (LQ) · Excepted quantities (EQ)  | 0<br>Code: E0<br>Not permitted as Excepted Quantity   |
| · IATA<br>· Remarks:   | no admission  |
| · Control temperature: · Emergency temperature:  | -10 °C<br>0 °C  |

#### **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.

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· Seveso category H3 STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

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

requirements Qualifying quantity (tonnes) for

the application of upper-tier requirements

**REGULATION (EC) No** 

1907/2006 ANNEX XVII Conditions of restriction: 3, 28, 69, 75

50 t

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
- 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.

H225 Highly flammable liquid and vapour. · Relevant phrases

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

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H331 Toxic if inhaled

H335 May cause respiratory irritation.

H350 May cause cancer. H370 Causes damage to organs. H371 May cause damage to organs.

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

Environment protection / Security of labour · Department issuing SDS:

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· Contact: Tel: +49 2871 9902-0

E-mail: mail@pergan.com

· Version number of previous version:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) Abbreviations and acronyms:

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
GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

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

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Org. Perox. D: Organic peroxides – Type C/D Org. Perox. F: Organic peroxides – Type E/F

Carc. 1B: Carcinogenicity – Category 1B
STOT SE 1: Specific target organ toxicity (single exposure) – Category

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

\* \* Data compared to the previous version altered.