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

· 1.1 Product identifier

. \_

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| the substance or mixture and uses advised agains<br>No further relevant information available.   |
|--|
|  |
| Reaction initiator<br>For industrial use   |
| e safety data sheet  |
| PERGAN GmbH<br>Hilfsstoffe für industrielle Prozesse<br>Schlavenhorst 71<br>D-46395 Bocholt<br>Tel: +49 2871 9902-0<br>Fax: +49 2871 9902-50 |
|  |
| Environment protection / Security of labour<br>Qualified person: E-mail: msds@pergan.com   |
| - Tel: +49 2871 9902-0   |
|  |

| SECTION 2: Hazards identific  | cation   |  |
|---|--|--|
| Org. Perox. FH242 Heating ISkin Sens. 1H317 May cauAsp. Tox. 1H304 May be f                           | ulation (EC) No 12<br>ble liquid and vapou<br>may cause a fire.<br>se an allergic skin re<br>atal if swallowed an<br>ic to aquatic life. | r.<br>eaction.<br>d enters airways.  |
| 2.2 Label elements<br>· Labelling according to<br>Regulation (EC) No 1272/2008<br>· Hazard pictograms |  | ssified and labelled according to the GB CLP regulation.   |
| · Signal word   | Danger   |  |
| <ul> <li>Hazard-determining<br/>components of labelling:</li> <li>Hazard statements</li> </ul>        | tert-Butylperoxy-3,<br>H226 Flammable I<br>H242 Heating may<br>H317 May cause a<br>H304 May be fatal                                     |  |
| • Precautionary statements  | P210<br>P220<br>P234<br>P243<br>P273<br>P280<br>P301+P310<br>P331  | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No<br>smoking.<br>Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and<br>accelerators (e. g. heavy metal compounds and amines).<br>Keep only in original packaging.<br>Take action to prevent static discharges.<br>Avoid release to the environment.<br>Wear protective gloves/protective clothing/eye protection/face protection/hearing<br>protection.<br>IF SWALLOWED: Immediately call a POISON CENTER/ doctor.<br>Do NOT induce vomiting.<br>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with<br>water [or shower].<br>Take off contaminated clothing and wash it before reuse.<br>Store locked up.<br>Protect from sunlight.<br>Store at temperatures not exceeding +30°C. Keep cool.<br>Store separately.<br>Dispose of contents/container in accordance with local/regional/national/international<br>regulations. |

· Results of PBT and vPvB assessment

· PBT:

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· vPvB:

(Contd. of page 1) 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: 93685-81-5           | Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated    | 60-70% |
| EINECS: 297-629-8         | Alternative CAS number: 13475-82-6  |        |
| Reg-No.: 01-2119490725-29 | Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413                          |        |
| CAS: 13122-18-4           | tert-Butylperoxy-3,5,5-trimethylhexanoate   | 25-30% |
| EINECS: 236-050-7         | Org. Perox. D, H242; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317 |        |
| Reg-No.: 01-2119498308-25 |   |        |
| · 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:
  - · After skin contact:
  - · After eye contact:
  - After swallowing:
- 4.2 Most important symptoms and effects, both acute and delayed
- 4.3 Indication of any immediate medical attention and special treatment needed

#### **SECTION 5: Firefighting measures**

- <sup>·</sup> 5.1 Extinguishing media
- Suitable extinguishing agents: For safety reasons unsuitable extinguishing agents:
- 5.2 Special hazards arising from the substance or mixture
- 5.3 Advice for firefighters Protective equipment: Additional information

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

In case of unconsciousness place patient stably in side position for transportation.

Water with full jet

Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.

Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first!

Supply fresh air and to be sure call for a doctor.

Immediately remove contaminated clothing.

No further relevant information available.

No further relevant information available

If symptoms persist consult doctor.

Take affected persons into fresh air and keep quiet.

Immediately wash with water and soap and rinse thoroughly.

Rinse opened eye for several minutes under running water.

### **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. 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:

· 6.2 Environmental precautions:

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.

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| 6.4 Reference to other sections                                       | (Contd. of page<br>See Section 7 for information on safe handling.<br>See Section 8 for information on personal protection equipment.<br>See Section 13 for disposal information.<br>In case of large spillage the environmental authority should be informed. |
|---|--|
| SECTION 7: Handling and sto   | orage  |
| 7.1 Precautions for safe  |  |
| handling  | Keep receptacles tightly sealed.   |
| -   | Store in cool, dry place in tightly closed receptacles.  |
|   | Keep away from heat and direct sunlight.   |
|   | Ensure good ventilation/exhaustion at the workplace.   |
|   | Open and handle receptacle with care.<br>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.<br>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. heav  |
|   | metal compounds and amines).   |
|   | Avoid contact with skin and eyes.  |
|   | 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.<br>Avoid shock and friction.  |
|   | Take precautionary measures against static discharges.   |
|   |  |
|   | bo 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,                                      |  |
| Storage:  | Pay attention to the special requirements of your local autorithies for storing dangerous goods.   |
| · Requirements to be met by   | Others in a condition of the   |
| storerooms and receptacles:   | Store in a cool location.<br>Store only in the original receptacle.  |
|   | Prevent any seepage into the ground.   |
|   | Use only receptacles specifically permitted for this substance/product.  |
| <ul> <li>Information about storage in</li> </ul>                      |  |
| one common storage facility:  | Do not store or park organic peroxide together with heavy metal compounds and amines.  |
| Fronth and information of a set                                       | Store away from foodstuffs, drinks and feeding stuffs.   |
| <ul> <li>Further information about<br/>storage conditions:</li> </ul> | Koon container tightly sealed  |
| storage conditions.   | Keep container tightly sealed.<br>Store in cool, dry conditions in well sealed receptacles.  |
|   | Protect from heat and direct sunlight.   |
|   | Protect from contamination.  |
|   | Store in a cool place.   |
| Recommended storage   |  |
| temperature (To maintain  | may + 120°C  |
| quality):<br>7.3 Specific end use(s)                                  | max.: +30°C<br>No further relevant information available.  |
|   | No number relevant information available.  |

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| SECTION 8: Exposu  | re contro   | ols/personal protection  |
|--|-------------|--|
| <ul> <li>8.1 Control parameters</li> <li>Ingredients with limit<br/>that require monitorin<br/>workplace:</li> </ul> | values      | The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.   |
| · DNELs  |             |  |
| 13122-18-4 tert-Butylpe  | eroxy-3,5,5 | 5-trimethylhexanoate   |
| Dermal DNEL Longte   | erm System  | n 3.2 mg/kg bw/day (Worker)  |
| Inhalative DNEL Longte   | erm System  | n 5.6 mg/m3 (Worker)   |
| PNECs  |             |  |
| 13122-18-4 tert-Butylpe  | eroxy-3,5,5 | 5-trimethylhexanoate   |
| PNEC Marinewater sed   | 0.05 mg/k   | g sed dw (-)   |
| PNEC Freshwater  | 0.003 mg/   | /I (AF 50)   |
| PNEC Freshwater sed  | 0.497 mg/   | /kg sed dw (-)   |
| PNEC Soil  |             | /kg soil dw (-)  |
| PNEC STP   | 2.6 mg/l (/ |  |
| PNEC Marinewater   | 0 mg/l (AF  |  |
| • Additional informatio  | n:          | The lists valid during the making were used as basis.  |
| 8.2 Exposure controls     Appropriate engineeri     controls     Individual protection r                             | •           | No further data; see section 7.<br>, <b>such as personal protective equipment</b>  |
| · General protective an  |             |  |
| hygienic measures:   |             | The usual precautionary measures are to be adhered to when handling chemicals.<br>Keep away from foodstuffs, beverages and feed.<br>Immediately remove all soiled and contaminated clothing<br>Wash hands before breaks and at the end of work.<br>Store protective clothing separately.<br>Do not inhale gases / fumes / aerosols.<br>Avoid close or long term contact with the skin.<br>Do not eat, drink, smoke or sniff while working.<br>Use skin protection cream for skin protection.<br>Be sure to clean skin thoroughly after work and before breaks. |
| <ul> <li>Respiratory protectio</li> </ul>  | n:          | 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.<br>Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.<br>Filter A2  |
| · Hand protection  |             | Only use chemical-protective gloves with CE-labelling of category III.<br>Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation<br>Protective gloves   |
| • Material of gloves   |             | The selection of the suitable gloves does not only depend on the material, but also on further marks of<br>quality and varies from manufacturer to manufacturer.<br>Butyl rubber, BR<br>Fluorocarbon rubber (Viton)<br>Nitrile rubber, NBR<br>Neoprene   |
| <ul> <li>Penetration time of g<br/>material</li> </ul>   | glove       | '<br>The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be<br>observed.   |
| • Eye/face protection  |             | Tightly sealed goggles   |
| · Body protection:   |             | Protective work clothing   |
|  |             | GB   |

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| SECTION 9: Physical and chemical properties                           |  |
|---|--|
| • 9.1 Information on basic physical and chemical properties           |  |
| 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.  |
| Lower and upper explosion limit                                       |  |
| · Lower:  | Not determined.  |
| · Upper:  | Not determined.  |
| Flash point:  | 45 °C  |
| Decomposition temperature:  | +60 °C (SADT)  |
| · pH  | Not determined.  |
| · Viscosity:  |  |
| Kinematic viscosity   | Not determined.  |
| · Dynamic:  | Not determined.  |
| Solubility  |  |
| water:  | Undetermined.  |
| <ul> <li>Partition coefficient n-octanol/water (log value)</li> </ul> | not determined   |
| Vapour pressure:  | Not determined.  |
| Density and/or relative density                                       |  |
| Density at 20 °C:   | 0.778 g/cm <sup>3</sup>  |
| Relative density  | Not determined.  |
| · Vapour density  | Not determined.  |
| · 9.2 Other information   | No further relevant information available.                           |
| · Appearance:   |  |
| · Form:   | Fluid  |
| Important information on protection of health and environme           | ent,   |
| and on safety.  |  |
| Ignition temperature:   | Product is not selfigniting.   |
| · Explosive properties:   | Product is not explosive. However, formation of explosive air/vapour |
|   | mixtures are possible.   |
| Change in condition   |  |
| · Evaporation rate  | Not determined.  |
| Information with regard to physical hazard classes                    |  |
| Explosives  | Void   |
| 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                | V-:1   |
| contact with water  | Void   |
| Oxidising liquids   | Void   |
| · Oxidising solids<br>· Organic peroxides                             | Void<br>Hosting may cause a fire                                     |
| · Organic peroxides   | Heating may cause a fire.<br>Void                                    |
| · Desensitised explosives   | Void   |
| นอออกอแออน องุมเบอเชออ  |  |

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

· 10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

· Thermal decomposition / conditions to be avoided:

SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous selfaccelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause decomposition at and above the temperature. Contact with incompatible substances can cause decomposition at or below the SADT

No decomposition if used and stored according to specifications.

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|  | (Contd. of pa<br>To avoid thermal decomposition do not overheat.  | ge 5) |
|--|---|-------|
| 10.3 Possibility of hazardous                | ·   |       |
| reactions                                    | Self-accelerating decomposition at SADT.  |       |
| <ul> <li>10.4 Conditions to avoid</li> </ul> | No further relevant information available.  |       |
| · 10.5 Incompatible materials:               | Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e heavy-metal compounds and amines). | e. g. |
| · 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/LC50 values relevant for classification: |   |                |   |  |
|  |   |                |   |  |
| 93685-81-  | 93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated |                |   |  |
| Oral   | LD50  | >5,000 mg/kg   | g (rattus)  |  |
| 13122-18-  | 4 tert-Buty   | lperoxy-3,5,5  | -trimethylhexanoate   |  |
| Oral   | LD50  | >5,000 mg/kg   | g (rattus)  |  |
| Dermal   | LD50  | >2,000 mg/kg   | g (rattus)  |  |
| Inhalative   | LC50 / 4h   | >0.8 mg/l (rat | ttus)   |  |
| Skin corr  | osion/irrita  | ation          | Based on available data, the classification criteria are not met. |  |
|  |   | e/irritation   | Based on available data, the classification criteria are not met. |  |
| •  | ory or skin   |                |   |  |
| sensitisa  |   |                | May cause an allergic skin reaction.                              |  |
|  | • Germ cell mutagenicity Based on available data, the classification criteria are not met.      |                |   |  |
| <ul> <li>Carcinog</li> </ul>   | • Carcinogenicity Based on available data, the classification criteria are not met.             |                | Based on available data, the classification criteria are not met. |  |
| · Reproduce  | ctive toxici  | ity            | Based on available data, the classification criteria are not met. |  |
| · STOT-sin   | gle expos   | ure            | Based on available data, the classification criteria are not met. |  |
| · STOT-rep   | eated exp   | osure          | Based on available data, the classification criteria are not met. |  |
| • Aspiratio  | Aspiration hazard May be fatal if swallowed and enters airways.                                 |                | May be fatal if swallowed and enters airways.                     |  |
| · 11.2 Inform  | mation on   | other hazard   | s   |  |
| · Endocrine disrupting properties  |   |                |   |  |
| None of the ingredients is listed.   |   |                |   |  |

### **SECTION 12: Ecological information**

| · 12.1 Toxicity   |                    |
|---|--------------------|
| · Aquatic toxicity:   |                    |
| 93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated |                    |
| EC50 / 48h >0.04 mg/l (daphnia)   |                    |
| IC50 / 72h >0.04 mg/l (algae)   |                    |
| 13122-18-4 tert-Butylperoxy-3,5,5-trimethylhexanoate  |                    |
| EC50 / 72h 0.33 mg/l (algae)  |                    |
| LC50 / 96h 7 mg/l (oncorhynchus mykiss)   |                    |
| EC50 / 48h >100 mg/l (daphnia)  |                    |
| 12.2 Persistence and degradability  |                    |
| · Degree of elimination:  |                    |
| · Classification:   |                    |
| 93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated |                    |
| Degradation (Not readily biodegradable)   |                    |
| 13122-18-4 tert-Butylperoxy-3,5,5-trimethylhexanoate  |                    |
| Degradation (Readily biodegradable) (OECD 301 D)  |                    |
| 12.3 Bioaccumulative potential  |                    |
| · Partition coefficient: nOctanol/water: [Log Kow]  |                    |
| 13122-18-4 tert-Butylperoxy-3,5,5-trimethylhexanoate  | 4,4 (25°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. |

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|---|--|
| · vPvB:   | The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII. |
| <ul> <li>12.6 Endocrine disrupting</li> </ul>         |  |
| properties  | The product does not contain substances with endocrine disrupting properties.                      |
| <ul> <li>12.7 Other adverse effects</li> </ul>        | No further relevant information available.   |
| · Remark:   | Very toxic for fish  |
| <ul> <li>Additional ecological information</li> </ul> | ation:   |
| · General notes:                                      | Very toxic for aquatic organisms   |
|   | Also poisonous for fish and plankton in water bodies.  |
|   | 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. Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-

Waste disposal key:
 Uncleaned packaging:
 Recommendation:

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

### SECTION 14: Transport information

number.

| · 14.1 UN number or ID number<br>· ADR, IMDG, IATA  | UN3109   |
|---|--|
| · 14.2 UN proper shipping name<br>· ADR             | UN3109 ORGANIC PEROXIDE TYPE F, LIQUID (tert-BUTYL PEROXY-<br>3,5,5-TRIMETHYLHEXANOATE), ENVIRONMENTALLY HAZARDOUS |
| ·IMDG   | ORGANIC PEROXIDE TYPE F, LIQUID (tert-BUTYL PEROXY-3,5,5-<br>TRIMETHYLHEXANOATE), MARINE POLLUTANT                 |
| ·IATA   | ORGANIC PEROXIDE TYPE F, LIQUID (tert-BUTYL PEROXY-3,5,5-<br>TRIMETHYLHEXANOATE)                                   |
| <ul> <li>14.3 Transport hazard class(es)</li> </ul> |  |
| ADR   |  |
|   |  |
| · Class<br>· Label                                  | 5.2 (P1) Organic peroxides.<br>5.2   |
| ·IMDG   |  |
|   |  |
| · Class   | 5.2 Organic peroxides.   |
| ·Label  | 5.2  |
|   |  |
| · Class   | 5.2 Organic peroxides.   |
| · Label   | 5.2  |
| · 14.4 Packing group                                |  |
| · ADR, IMDG, IATA                                   | Void   |
| · 14.5 Environmental hazards:                       | Product contains environmentally hazardous substances: tert-BUTYL<br>PEROXY-3,5,5-TRIMETHYLHEXANOATE               |
| · Marine pollutant:                                 | Yes<br>Symbol (fish and tree)  |
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|--|---|
| · Special marking (ADR):                                 | Symbol (fish and tree)                    |
| 14.6 Special precautions for user                        | Warning: Organic peroxides.               |
| Hazard identification number (Kemler code):              | -   |
| Stowage Category   | D   |
| 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 instr | ruments 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)                                | 125 ml                                    |
| Excepted quantities (EQ)                                 | Code: E0                                  |
| • • • • •  | Not permitted as Excepted Quantity        |

### **SECTION 15: Regulatory information**

| one of the ingredients is listed.<br>Regulated poisons<br>one of the ingredients is listed.   |  |
|---|--|
| •   |  |
| one of the ingredients is listed.   |  |
|   |  |
| Reportable explosives precurs   | ors  |
| one of the ingredients is listed.   |  |
| Reportable poisons  |  |
| one of the ingredients is listed.   |  |
| Directive 2012/18/EU<br>Qualifying quantity (tonnes) fo<br>the application of lower-tier<br>requirements<br>Qualifying quantity (tonnes) fo<br>the application of upper-tier<br>requirements<br>DIRECTIVE 2011/65/EU on the r | 50 t   |
| one of the ingredients is listed.   |  |
| Annex I - RESTRICTED EXPLO  | SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))           |
| one of the ingredients is listed.   |  |
| Annex II - REPORTABLE EXPL  | OSIVES PRECURSORS  |
| one of the ingredients is listed.   |  |
| Regulation (EC) No 273/2004 o   | n drug precursors  |
| one of the ingredients is listed.   |  |
| Regulation (EC) No 111/2005 la precursors   | aying down rules for the monitoring of trade between the Community and third countries in drug |
| one of the ingredients is listed.   |  |
| National regulations:   |  |





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The Peroxide Company

### Trade name: PEROXAN PIN-30

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### **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                              | <ul> <li>H226 Flammable liquid and vapour.</li> <li>H242 Heating may cause a fire.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H413 May cause long lasting harmful effects to aquatic life.</li> </ul> |
|---|--|
| <ul> <li>Department issuing SDS:</li> </ul>     | Environment protection / Security of labour  |
| · Contact:                                      | Tel: +49 2871 9902-0   |
| Contact.  | E-mail: mail@pergan.com  |
| <ul> <li>Abbreviations and acronyms:</li> </ul> | RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the<br>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)<br>IMDG: International Maritime Code for Dangerous Goods  |
|   | INDS. 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<br>LD50: Lethal dose, 50 percent  |
|   | PBT: Persistent, Bioaccumulative and Toxic   |
|   | VPVB: very Persistent and very Bioaccumulative   |
|   | Flam. Lig. 3: Flammable liquids – Category 3   |
|   | Org. Perox. D: Organic peroxides – Type C/D  |
|   | Org. Perox. F: Organic peroxides – Type E/F  |
|   | Skin Sens. 1: Skin sensitisation – Category 1  |
|   | Asp. Tox. 1: Aspiration hazard – Category 1  |
|   | Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1<br>Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1   |
|   | Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4  |
| • * Data compared to the                        |  |
| •   |  |
| previous version altered.                       |  |