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

· 1.1 Product identifier

**PEROXAN PND-75** 

| · Trade name:  | PERUXAN PND-/5   |
|--|--|
| · 1.2 Relevant identified uses of the                              | ne substance or mixture and uses advised against<br>No further relevant information available.   |
| <ul> <li>Application of the substance /<br/>the mixture</li> </ul> | Reaction initiator<br>For industrial use   |
| · 1.3 Details of the supplier of the                               | safety data sheet  |
| Manufacturer/Supplier:   | 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 |
| <ul> <li>Further information obtainable<br/>from:</li> </ul>       | Environment protection / Security of labour  |
|  | Qualified person: E-mail: msds@pergan.com  |
| <ul> <li>1.4 Emergency telephone<br/>number:</li> </ul>            | - Tel: +49 2871 9902-0   |
|  |  |
| SECTION 2: Hazards identifie                                       | ration   |

P331

P405

P410

P420

P303+P361+P353

P362+P364

P411+P235

#### **SECTION 2: Hazards identification**

#### · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Flam. Liq. 3 H226 Flammable liquid and vapour. Org. Perox. D H242 Heating may cause a fire. Skin Irrit. 2 H315 Causes skin irritation. H317 May cause an allergic skin reaction. Skin Sens 1 Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Acute 1 H400 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms GHS02 GHS07 GHS08 GHS09 Signal word Danger · Hazard-determining components of labelling: tert-butyl peroxyneodecanoate Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated · 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. H410 Very toxic to aquatic life with long lasting effects. · Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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/hearing protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Do NOT induce vomiting.

water [or shower].

Store locked up.

Store separately.

Protect from sunlight.

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

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Take off contaminated clothing and wash it before reuse.

Store at temperatures not exceeding 0°C. Keep cool.

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|   | (Contd. of page 1)<br>P501 Dispose of contents/container in accordance with local/regional/national/international regulations. |
|---|--|
| 2.3 Other hazards                               |  |
| <ul> <li>Results of PBT and vPvB ass</li> </ul> | essment  |
| · 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-                   | <b>0</b>   |
| disrupting properties                           | The product does not contain substances with endocrine disrupting properties.  |

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

### 3.2 Mixtures

| Dangerous components:                          |  |        |
|--|--|--------|
| CAS: 26748-41-4                                | tert-butyl peroxyneodecanoate  | 70-80% |
| EINECS: 247-955-1<br>Reg-No.: 01-2119948628-22 | Org. Perox. D, H242; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317                                      |        |
| CAS: 93685-81-5<br>EINECS: 297-629-8           | Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated<br>Alternative CAS number: 13475-82-6 | 20-25% |
| Reg-No.: 01-2119490725-29                      | Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413   |        |
| · 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:

- · 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

Take care of personal protection for the first aider. 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. Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing. Rinse opened eye for several minutes under running water. If symptoms persist consult doctor. No further relevant information available.

No further relevant information available.

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

· 5.1 Extinguishing media For safety reasons unsuitable

extinguishing agents:

the substance or mixture

5.3 Advice for firefighters

 Protective equipment: Additional information

· Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water. Water with full jet 5.2 Special hazards arising from 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!

#### **SECTION 6: Accidental release measures**

| <ul> <li>6.1 Personal precautions,<br/>protective equipment and</li> </ul> |   |
|--|---|
| 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.                             |

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| · 6.2 Environmental precautions:                 | (Contd. of p<br>Inform respective authorities in case of seepage into water course or sewage system.                | age 2) |
|--|---|--------|
|  | Do not allow to enter sewers/ surface or ground water.  |        |
| <ul> <li>6.3 Methods and material for</li> </ul> |   |        |
| containment and cleaning up:                     | Dispose contaminated material as waste according to section 13.<br>Ensure adequate ventilation.                     |        |
|  | Do not flush with water or aqueous cleansing agents   |        |
|  | Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % bei<br>disposal. | fore   |
|  | 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 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.  |
|   | 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).<br>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.                                    |
|   | 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.<br>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.              |
| <ul> <li>Requirements to be met by<br/>storerooms and receptacles:</li> </ul> | Store in a cool location.   |
| storerooms and receptacies.   | 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.                         |
| · Further information about   | Store away from foodstuffs, drinks and feeding stuffs.  |
| storage conditions:   | Keep container tightly sealed.  |
| storage conditions.   | Store in cool, dry conditions in well sealed receptacles.   |
|   | (Contd. on page 4)  |

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|  |            | (Contd. of page 3)   |
|--|------------|--|
|  |            | Protect from heat and direct sunlight.<br>Protect from contamination.  |
|  |            | Store in a cool place.   |
| <b>_</b>                               |            | Storage in a collecting room is required.  |
| · Recommended stora                    | •          |  |
| temperature (To mai<br>quality):       | ntain      | max.: -10 °C   |
| · Control temperature:                 |            | 0 °C   |
| · Emergency temperat                   | ure:       | +10 °C   |
| • Storage class:                       |            | 5.2  |
| · 7.3 Specific end use(s)              | )          | No further relevant information available.   |
| SECTION 8: Exposu                      | re contro  | ols/personal protection  |
| · 8.1 Control parameters               | 6          |  |
| Ingredients with limit                 |            |  |
| that require monitorin                 | ig at the  | The product does not contain any relevant quantities of materials with critical values that have to be   |
| workplace:                             |            | The product does not contain any relevant quantities of materials with critical values that have to be<br>monitored at the workplace.  |
| DNELs                                  |            |  |
| 26748-41-4 tert-butyl p                | eroxyneo   | decanoate  |
|  | •          | n 8 mg/kg bw/day (Worker)  |
| Inhalative DNEL Longte                 | erm Syster | n 2,8 mg/m3 (Worker)   |
| · PNECs                                |            |  |
| 26748-41-4 tert-butyl p                | -          |  |
| PNEC Marinewater sed                   |            |  |
| PNEC Freshwater                        |            | /I (AF 10)   |
| PNEC Freshwater sed                    | -          | kg sed dw (-)  |
| PNEC Soil                              | -          | /kg soil dw (-)  |
| PNEC STP                               | -          | /l (AF 10)   |
| PNEC Marinewater                       | 0 mg/l (A  |  |
| • Additional informatio                | on:        | The lists valid during the making were used as basis.  |
| · 8.2 Exposure controls                |            |  |
| Appropriate engineer                   | ing        |  |
| controls                               |            | No further data; see section 7.<br>, such as personal protective equipment   |
| · General protective ar                |            | , such as personal protective equipment  |
| 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.<br>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.<br>Be sure to clean skin thoroughly after work and before breaks.   |
| · Respiratory protectio                | 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.   |
|  |            | 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  |
| <ul> <li>Material of gloves</li> </ul> |            | 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.<br>Butyl rubber, BR  |
|  |            | Fluorocarbon rubber (Viton)  |
|  |            | Nitrile rubber, NBR  |
| _                                      |            | Neoprene   |
| · Penetration time of g                | glove      | The super basely frequencies from the first the formula of the supervisit stress. All the stress the supervisit stress the supervisi |
| material                               |            | The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.   |
|  |            | (Contd. on page 5)   |
|  |            | IF   |



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|   | (Contd. of page 4  |
|---|--|
| • Eye/face protection Tightly sealed goggle                           | es   |
| Padu protection   |  |
| Body protection:  | ing  |
|   |  |
| OFOTION O. Physical and sharring house artist                         |  |
| SECTION 9: Physical and chemical properties                           |  |
| • 9.1 Information on basic physical and chemical properties           |  |
| · 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                                       | Net defense in ed  |
| · Lower:  | Not determined.  |
| · Upper:<br>· Flash point:  | Not determined.  |
| · Plash point:<br>· Decomposition temperature:                        | > SADT<br>+20 °C (SADT)  |
| · Decomposition temperature:<br>· 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:   | 0,87 g/cm <sup>3</sup>   |
| Relative density  | Not determined.  |
| · Vapour density  | Not determined.  |
| · 9.2 Other information<br>· Appearance:                              | No further relevant information available.                           |
| · Form:   | Fluid  |
| · Important information on protection of health and environm          |  |
| 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<br>· Flammable solids                             | Flammable liquid and vapour.<br>Void                                 |
| • Self-reactive substances and mixtures                               | Void   |
| Pyrophoric liquids  | Void   |
| · Pyrophoric solids   | Void   |
| Self-heating substances and mixtures                                  | Void   |
| Substances and mixtures, which emit flammable gases in                | -  |
| contact with water  | Void   |
| · Oxidising liquids   | Void   |
| Oxidising solids  | Void   |
| Organic peroxides   | Heating may cause a fire.  |
| Corrosive to metals   | Void   |
| · Desensitised explosives   | Void   |
|   | (Contd. on page 6  |

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| • Other safety characteristics<br>• Active oxygen                       | 4,8 - 5,0 %   |
|---|---|
| SECTION 10: Stability and rea   | activity  |
| 10.1 Reactivity<br>10.2 Chemical stability<br>· Thermal decomposition / | No further relevant information available.  |
| conditions to be avoided:   | SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause decomposition at and above the temperature. Contact with incompatible substances can cause decomposition at or below the SADT.<br>No decomposition if used and stored according to specifications.<br>To avoid thermal decomposition do not overheat. |
| 10.3 Possibility of hazardous   |   |
| reactions<br>10.4 Conditions to avoid                                   | Self-accelerating decomposition at SADT.<br>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).  |
| 10.6 Hazardous decomposition  |   |
| products:   | Hydrocarbons, carbondioxide and -monoxid.<br>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.  |

# • **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.

| Addie to  | liony  |               | Babed of available data, the oldesineation offend are not met.    |  |  |
|---|--|---------------|---|--|--|
| · LD/LC50 values relevant for classification:   |  |               |   |  |  |
| 26748-41-   | 4 tert-buty  | l peroxyneod  | lecanoate   |  |  |
| Oral  | LD50   | 10.776 mg/k   | g (rattus)  |  |  |
| Dermal  | LD50   | >6.000 mg/k   | >6.000 mg/kg (rabbit)   |  |  |
| Inhalative  | LC50 / 4h  | 37,5 mg/l (ra | 37,5 mg/l (rattus)  |  |  |
| 93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated   |  |               |   |  |  |
| Oral  | LD50   | >5.000 mg/k   | g (rattus)  |  |  |
| · Skin corr   | Skin corrosion/irritation Causes skin irritation.                                      |               |   |  |  |
| • Serious eye damage/irritation Based on available data, the classification criteria are not met. |  |               |   |  |  |
| Respirate   | ory 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. |               |   |  |  |
| •   | peated exp   | osure         | Based on available data, the classification criteria are not met. |  |  |
| <ul> <li>Aspiratio</li> </ul>   |  |               | May be fatal if swallowed and enters airways.                     |  |  |
| · 11.2 Infor  | mation on  | other hazard  |   |  |  |
| Endocrin  | ne disruptii   | ng properties |   |  |  |
| None of the ingredients is listed.  |  |               |   |  |  |
|   |  |               |   |  |  |

# **SECTION 12: Ecological information**

| 26748-41-4 tert-butyl peroxyneodecanoate  |  |
|---|--|
| 20140-41-4 tert-butyl peroxylieodecalloate  |  |
| LC50 / 96h 0,33 mg/l (brachydanio rerio)  |  |
| EC50 / 48h 0,79 mg/l (daphnia)  |  |
| 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)   |  |

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| · Classification:                                     |   |                 |
|---|---|-----------------|
| 26748-41-4 tert-butyl peroxyne                        | eodecanoate   |                 |
| Degradation (Readily biodegra                         | adable) (OECD 301 D)  |                 |
| 93685-81-5 Hydrocarbons, C4,                          | , 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated  |                 |
| Degradation (Not readily biode                        | gradable)   |                 |
| 12.3 Bioaccumulative potentia                         | al  |                 |
| · Partition coefficient: nOctan                       | iol/water: [Log Kow]  |                 |
| 26748-41-4 tert-butyl peroxyned                       | odecanoate  | 5,0 (25°C       |
| · 12.4 Mobility in soil                               | No further relevant information available.  | 1               |
| 12.5 Results of PBT and vPvB                          | 3 assessment  |                 |
| · PBT:  | The substances in the mixture do not meet the PBT/vPvB criteria according to REAC   |                 |
| · vPvB:   | The substances in the mixture do not meet the PBT/vPvB criteria according to REAC   | CH, annex XIII. |
| <ul> <li>12.6 Endocrine disrupting</li> </ul>         |   |                 |
| properties  | The product does not contain substances with endocrine disrupting properties.   |                 |
| 12.7 Other adverse effects                            | No further relevant information available.  |                 |
| · Remark:   | Harmful to fish   |                 |
| <ul> <li>Additional ecological information</li> </ul> |   |                 |
| · General notes:                                      | Harmful to aquatic organisms  |                 |
|   | Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water   |                 |
|   |   |                 |
|   | Do not allow product to reach ground water, water course or sewage system.<br>Danger to drinking water if even small guantities leak into the ground. |                 |



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:

system. 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.

| · 14.1 UN number or ID number<br>· ADR, IMDG      | UN3115  |
|---|---|
| · 14.2 UN proper shipping name<br>· ADR<br>· IMDG | UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE<br>CONTROLLED (tert-BUTYL PEROXYNEODECANOATE),<br>ENVIRONMENTALLY HAZARDOUS<br>ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED<br>(tert-BUTYL PEROXYNEODECANOATE), MARINE POLLUTANT |
| · 14.3 Transport hazard class(es)                 |   |
|   |   |
|   |   |
| Class   | 5.2 (P2) Organic peroxides.   |
| ·Label  | 5.2   |
| ·IMDG   |   |
|   |   |
| · Class   | 5.2 Organic peroxides.  |
| 01855   |   |

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|--|---|
| ΙΑΤΑ   |   |
| · Class  | Х   |
| · Label  | Х   |
| 14.4 Packing group                                     |   |
| ADR, IMDG  | Void  |
| 14.5 Environmental hazards:                            | Product contains environmentally hazardous substances: tert-BUTYL<br>PEROXYNEODECANOATE |
| Marine pollutant:                                      | Symbol (fish and tree)  |
| Special marking (ADR):                                 | Symbol (fish and tree)  |
| 14.6 Special precautions for user                      | Warning: Organic peroxides.   |
| Hazard identification number (Kemler code):            | -   |
| · Stowage Category                                     | D   |
| · Stowage Code   | SW1 Protected from sources of heat.   |
|  | SW3 Shall be transported under temperature control.                                     |
| · Segregation Code                                     | 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 guantities (LQ)                              | 0   |
| Excepted quantities (EQ)                               | Code: E0  |
|  | Not permitted as Excepted Quantity  |
| · Transport category                                   | 1   |
| · Tunnel restriction code                              | Ď   |
|  |   |
| · RID / GGVSEB:  | no admission  |
| · IMDG   |   |
| Limited quantities (LQ)                                | 0   |
| · Excepted quantities (EQ)                             | Code: E0  |
|  | Not permitted as Excepted Quantity  |
|  |   |
| · Remarks:   | no admission  |
| Control temperature:                                   | 0 °C  |
| Emergency temperature:                                 | +10 °C  |

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

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

| <ul> <li>Directive 2012/18/EU</li> <li>Named dangerous substances</li> <li>ANNEX I</li> <li>Seveso category</li> </ul>   | None of the ingredients is listed.<br>P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES<br>E1 Hazardous to the Aquatic Environment |  |
|--|--|--|
| Qualifying quantity (tonnes) for the application of lower-tier   |  |  |
| requirements <ul> <li>Qualifying quantity (tonnes) for the application of upper-tier</li> </ul>  | 50 t<br>r  |  |
| requirements<br>REGULATION (EC) No   | 200 t  |  |
| 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 II |  |  |
| 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.   |  |  |
|  | (Contd. on page 9)<br>IE —   |  |
|  |  |  |



Printing date 03.04.2024

Version: 7 (replaces version 6)

Revision: 16.02.2023

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|  | (Contd. of page 8) |
|--|--------------------|
| · 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 co<br>precursors | ountries in drug   |
| 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.

| · 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>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</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<br>E-mail: mail@pergan.com  |
| · Version number of previous   |  |
| version:   | 6  |
| • Abbreviations and acronyms:  | RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the<br>International Transport of Dangerous Goods by Rail)<br>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International<br>Carriage of Dangerous Goods by Road)<br>IMDG: International Maritime Code for Dangerous Goods<br>IATA: International Maritime Code for Dangerous Goods<br>IATA: International Air Transport Association<br>GHS: Globally Harmonised System of Classification and Labelling of Chemicals<br>EINECS: European Inventory of Existing Commercial Chemical Substances<br>CAS: Chemical Abstracts Service (division of the American Chemical Society)<br>DNEL: Derived No-Effect Concentration (REACH)<br>LC50: Lethal concentration, 50 percent<br>LD50: Lethal concentration, 50 percent<br>DBT: Persistent, Bioaccumulative and Toxic<br>vPvB: very Persistent and very Bioaccumulative<br>Flam. Liq. 3: Flammable liquids – Category 3<br>Org. Percox. D: Organic peroxides – Type C/D<br>Skin Irrit. 2: Skin corrosion/Irritation – Category 1<br>Asp. Tox. 1: Aspiration hazard – Category 1<br>Aquatic Chronic 4: Hazardous to the aquatic environment - acute aquatic hazard – Category 1<br>Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4 |
| <ul> <li>* Data compared to the<br/>previous version altered.</li> </ul> |  |