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 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)  
 Revision date / version: 02.07.2026 / 0016  
 Replacing version dated / version: 23.03.2026 / 0015  
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 Denso ND12  
 8887200031 / 76 / 79

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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

#### 1.1 Product identifier

**Denso ND12**  
**8887200031 / 76 / 79**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture:**

Lubricant

**Uses advised against:**

No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

WAECO Germany WSE GmbH,  
 Hollefeldstr. 63, 48282 Emsdetten,  
 Germany  
 Tel +49 2572 879-0  
 info@waeco.com  
 waeco-wse.com

Dometic UK Ltd., Dometic House,  
 The Brewery, Blandford St. Mary,  
 Dorset DT11 9LS, United Kingdom,  
 Tel. +44 344 626 0133

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for  
 requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

**Emergency information services / official advisory body:**

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**Telephone number of the company in case of emergencies:**

+49 (0) 700 / 24 112 112 (CCWA)  
 +1 872 5888271 (CCWA)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) 1272/2008 (CLP)**

| Hazard class    | Hazard category | Hazard statement                                           |
|-----------------|-----------------|------------------------------------------------------------|
| Skin Sens.      | 1               | H317-May cause an allergic skin reaction.                  |
| 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

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## Labeling according to Regulation (EC) 1272/2008 (CLP)



### Warning

H317-May cause an allergic skin reaction. H410-Very toxic to aquatic life with long lasting effects.

P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves.  
P333+P313-If skin irritation or rash occurs: Get medical advice / attention. P391-Collect spillage.

EUH205-Contains epoxy constituents. May produce an allergic reaction.

Tris(nonylphenyl) phosphite  
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-methyl-.omega.-methoxy-

## 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture contains a substance with endocrine disrupting properties. The substance is named in Section 3.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.

### 3.2 Mixtures

| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-methyl-.omega.-methoxy-      |                    |
|------------------------------------------------------------------------|--------------------|
| Registration number (REACH)                                            | ---                |
| Index                                                                  | ---                |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 680-480-1          |
| CAS                                                                    | 24991-61-5         |
| content %                                                              | 50-100             |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Skin Sens. 1, H317 |

| hexadec-1-ene                                                          |                             |
|------------------------------------------------------------------------|-----------------------------|
| Registration number (REACH)                                            | 01-2119474686-23-XXXX       |
| Index                                                                  | ---                         |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 211-105-8                   |
| CAS                                                                    | 629-73-2                    |
| content %                                                              | 1-<2                        |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066<br>Asp. Tox. 1, H304 |

| Decyloxirane                           |                       |
|----------------------------------------|-----------------------|
| Registration number (REACH)            | 01-2119943390-42-XXXX |
| Index                                  | ---                   |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 220-667-3             |
| CAS                                    | 2855-19-8             |

|                                                                               |                                                                                      |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>content %</b>                                                              | 1-<2                                                                                 |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Skin Irrit. 2, H315<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=10) |

|                                                                               |                                                                                        |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Dodecyloxirane</b>                                                         |                                                                                        |
| <b>Registration number (REACH)</b>                                            | 01-2119943387-29-XXXX                                                                  |
| <b>Index</b>                                                                  | ---                                                                                    |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 221-781-6                                                                              |
| <b>CAS</b>                                                                    | 3234-28-4                                                                              |
| <b>content %</b>                                                              | 1-<2                                                                                   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Skin Irrit. 2, H315<br>Aquatic Acute 1, H400 (M=100)<br>Aquatic Chronic 1, H410 (M=10) |

|                                                                               |                                                                                    |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Tris(nonylphenyl) phosphite</b>                                            | <b>SVHC-substance</b><br><b>Substance with endocrine disrupting properties.</b>    |
| <b>Registration number (REACH)</b>                                            | 01-2119520601-54-XXXX                                                              |
| <b>Index</b>                                                                  | 015-202-00-4                                                                       |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 701-028-2                                                                          |
| <b>CAS</b>                                                                    | 26523-78-4                                                                         |
| <b>content %</b>                                                              | 0,1-<1                                                                             |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Skin Sens. 1, H317<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1) |

|                                                                               |                                                              |
|-------------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>2,6-di-tert-butyl-p-cresol</b>                                             |                                                              |
| <b>Registration number (REACH)</b>                                            | 01-2119555270-46-XXXX                                        |
| <b>Index</b>                                                                  | ---                                                          |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 204-881-4                                                    |
| <b>CAS</b>                                                                    | 128-37-0                                                     |
| <b>content %</b>                                                              | 0,1-<1                                                       |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1) |

|                                                                               |                                                                                       |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Tris(methylphenyl) phosphate</b>                                           |                                                                                       |
| <b>Registration number (REACH)</b>                                            | 01-2119531335-46-XXXX                                                                 |
| <b>Index</b>                                                                  | ---                                                                                   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 809-930-9                                                                             |
| <b>CAS</b>                                                                    | 1330-78-5                                                                             |
| <b>content %</b>                                                              | 0,1-<1                                                                                |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Repr. 2, H361f (oral)<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1) |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

Allergic reaction possible.

### 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

CO2

Foam

Dry extinguisher

Water mist

#### Unsuitable extinguishing media

High volume water jet

### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of phosphorus

Toxic gases

### 5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Keep non-essential personnel away.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

### 6.3 Methods and material for containment and cleaning up



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Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

Fill the absorbed material into lockable containers.

Do not wash away with water or watery cleaning agents.

#### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

### SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

#### 7.1 Precautions for safe handling

##### 7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

##### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Protect from direct sunlight and warming.

Store in a well-ventilated place.

Store cool.

Store in a dry place.

#### 7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

|                                                                                                         |  |                            |     |
|---------------------------------------------------------------------------------------------------------|--|----------------------------|-----|
|  <b>Chemical Name</b> |  | 2,6-di-tert-butyl-p-cresol |     |
| WEL-TWA: 10 mg/m3                                                                                       |  | WEL-STEL: ---              | --- |
| Monitoring procedures:                                                                                  |  | ---                        |     |
| BMGV: ---                                                                                               |  | Other information: ---     |     |

| hexadec-1-ene       |                                                      |                  |            |        |          |      |
|---------------------|------------------------------------------------------|------------------|------------|--------|----------|------|
| Area of application | Exposure route / Environmental compartment           | Effect on health | Descriptor | Value  | Unit     | Note |
|                     | Environment - freshwater                             |                  | PNEC       | 0,001  | mg/l     |      |
|                     | Environment - sediment                               |                  | PNEC       | 0,001  | mg/l     |      |
|                     | Environment - water, sporadic (intermittent) release |                  | PNEC       | 0,001  | mg/l     |      |
|                     | Environment - sediment, freshwater                   |                  | PNEC       | 426,58 | mg/kg dw |      |
|                     | Environment - sediment, marine                       |                  | PNEC       | 426,58 | mg/kg dw |      |
|                     | Environment - soil                                   |                  | PNEC       | 85,3   | mg/kg dw |      |

| Decyloxirane        |                                                      |                             |            |       |            |      |
|---------------------|------------------------------------------------------|-----------------------------|------------|-------|------------|------|
| Area of application | Exposure route / Environmental compartment           | Effect on health            | Descriptor | Value | Unit       | Note |
|                     | Environment - freshwater                             |                             | PNEC       | 0,171 | µg/l       |      |
|                     | Environment - marine                                 |                             | PNEC       | 0,017 | µg/l       |      |
|                     | Environment - water, sporadic (intermittent) release |                             | PNEC       | 1,71  | µg/l       |      |
|                     | Environment - sewage treatment plant                 |                             | PNEC       | 3,6   | mg/l       |      |
| Consumer            | Human - oral                                         | Long term, systemic effects | DNEL       | 6,25  | mg/kg bw/d |      |
| Consumer            | Human - dermal                                       | Long term, systemic effects | DNEL       | 6,25  | mg/kg bw/d |      |
| Consumer            | Human - inhalation                                   | Long term, systemic effects | DNEL       | 10,9  | mg/m3      |      |
| Workers / employees | Human - dermal                                       | Long term, systemic effects | DNEL       | 10,4  | mg/kg bw/d |      |
| Workers / employees | Human - inhalation                                   | Long term, systemic effects | DNEL       | 36,7  | mg/m3      |      |

| Dodecyloxirane      |                                                      |                             |            |        |            |      |
|---------------------|------------------------------------------------------|-----------------------------|------------|--------|------------|------|
| Area of application | Exposure route / Environmental compartment           | Effect on health            | Descriptor | Value  | Unit       | Note |
|                     | Environment - freshwater                             |                             | PNEC       | 0,002  | µg/l       |      |
|                     | Environment - marine                                 |                             | PNEC       | 0,0002 | µg/l       |      |
|                     | Environment - water, sporadic (intermittent) release |                             | PNEC       | 0,024  | µg/l       |      |
|                     | Environment - sewage treatment plant                 |                             | PNEC       | 2,61   | mg/l       |      |
| Consumer            | Human - oral                                         | Long term, systemic effects | DNEL       | 6,25   | mg/kg bw/d |      |
| Consumer            | Human - dermal                                       | Long term, systemic effects | DNEL       | 6,25   | mg/kg bw/d |      |
| Consumer            | Human - inhalation                                   | Long term, systemic effects | DNEL       | 10,9   | mg/m3      |      |
| Workers / employees | Human - dermal                                       | Long term, systemic effects | DNEL       | 10,4   | mg/kg bw/d |      |
| Workers / employees | Human - inhalation                                   | Long term, systemic effects | DNEL       | 36,7   | mg/m3      |      |

| Tris(nonylphenyl) phosphite |                                                      |                  |            |       |            |      |
|-----------------------------|------------------------------------------------------|------------------|------------|-------|------------|------|
| Area of application         | Exposure route / Environmental compartment           | Effect on health | Descriptor | Value | Unit       | Note |
|                             | Environment - freshwater                             |                  | PNEC       | 50    | µg/l       |      |
|                             | Environment - marine                                 |                  | PNEC       | 50    | µg/l       |      |
|                             | Environment - water, sporadic (intermittent) release |                  | PNEC       | 50    | mg/l       |      |
|                             | Environment - sediment, freshwater                   |                  | PNEC       | 0,15  | mg/kg dw   |      |
|                             | Environment - sediment, marine                       |                  | PNEC       | 0,15  | mg/kg dw   |      |
|                             | Environment - oral (animal feed)                     |                  | PNEC       | 37    | mg/kg feed |      |

|                     |                                      |                              |      |      |            |  |
|---------------------|--------------------------------------|------------------------------|------|------|------------|--|
|                     | Environment - sewage treatment plant |                              | PNEC | 1,8  | mg/l       |  |
| Consumer            | Human - oral                         | Long term, systemic effects  | DNEL | 1,67 | mg/kg bw/d |  |
| Consumer            | Human - dermal                       | Short term, systemic effects | DNEL | 8,35 | mg/kg bw/d |  |
| Consumer            | Human - inhalation                   | Long term, systemic effects  | DNEL | 11,8 | mg/m3      |  |
| Workers / employees | Human - dermal                       | Long term, systemic effects  | DNEL | 16,7 | mg/kg bw/d |  |
| Workers / employees | Human - inhalation                   | Long term, systemic effects  | DNEL | 23,6 | mg/m3      |  |

## 2,6-di-tert-butyl-p-cresol

| Area of application | Exposure route / Environmental compartment           | Effect on health            | Descriptor | Value | Unit         | Note |
|---------------------|------------------------------------------------------|-----------------------------|------------|-------|--------------|------|
|                     | Environment - soil                                   |                             | PNEC       | 1,04  | mg/kg wwt    |      |
|                     | Environment - sewage treatment plant                 |                             | PNEC       | 0,017 | mg/l         |      |
|                     | Environment - sediment                               |                             | PNEC       | 1,29  | mg/kg wwt    |      |
|                     | Environment - marine                                 |                             | PNEC       | 0,02  | µg/l         |      |
|                     | Environment - water, sporadic (intermittent) release |                             | PNEC       | 1,99  | µg/l         |      |
|                     | Environment - freshwater                             |                             | PNEC       | 0,199 | µg/l         |      |
|                     | Environment - oral (animal feed)                     |                             | PNEC       | 16,67 | mg/kg feed   |      |
|                     | Environment - soil                                   |                             | PNEC       | 0,054 | mg/kg dw     |      |
|                     | Environment - sediment, freshwater                   |                             | PNEC       | 0,458 | mg/kg dw     |      |
|                     | Environment - sediment, marine                       |                             | PNEC       | 0,046 | mg/kg dw     |      |
| Consumer            | Human - inhalation                                   | Long term, systemic effects | DNEL       | 0,435 | mg/m3        |      |
| Consumer            | Human - dermal                                       | Long term, systemic effects | DNEL       | 0,25  | mg/kg bw/d   |      |
| Consumer            | Human - oral                                         | Long term, systemic effects | DNEL       | 0,25  | mg/kg bw/day |      |
| Workers / employees | Human - inhalation                                   | Long term, systemic effects | DNEL       | 1,76  | mg/m3        |      |
| Workers / employees | Human - dermal                                       | Long term, systemic effects | DNEL       | 0,5   | mg/kg bw/day |      |

## Tris(methylphenyl) phosphate

| Area of application | Exposure route / Environmental compartment           | Effect on health | Descriptor | Value | Unit       | Note |
|---------------------|------------------------------------------------------|------------------|------------|-------|------------|------|
|                     | Environment - freshwater                             |                  | PNEC       | 0,001 | mg/l       |      |
|                     | Environment - marine                                 |                  | PNEC       | 0     | mg/l       |      |
|                     | Environment - water, sporadic (intermittent) release |                  | PNEC       | 0,001 | mg/l       |      |
|                     | Environment - sediment, freshwater                   |                  | PNEC       | 2,05  | mg/kg dw   |      |
|                     | Environment - sediment, marine                       |                  | PNEC       | 0,205 | mg/kg dw   |      |
|                     | Environment - soil                                   |                  | PNEC       | 1,01  | mg/kg dw   |      |
|                     | Environment - oral (animal feed)                     |                  | PNEC       | 0,65  | mg/kg feed |      |

|                     |                                      |                             |      |      |            |  |
|---------------------|--------------------------------------|-----------------------------|------|------|------------|--|
|                     | Environment - sewage treatment plant |                             | PNEC | 100  | mg/l       |  |
| Consumer            | Human - oral                         | Long term, systemic effects | DNEL | 0,02 | mg/kg bw/d |  |
| Consumer            | Human - dermal                       | Long term, systemic effects | DNEL | 0,15 | mg/kg bw/d |  |
| Consumer            | Human - inhalation                   | Long term, systemic effects | DNEL | 0,03 | mg/m3      |  |
| Workers / employees | Human - dermal                       | Long term, systemic effects | DNEL | 0,41 | mg/kg bw/d |  |
| Workers / employees | Human - inhalation                   | Long term, systemic effects | DNEL | 0,18 | mg/m3      |  |

- United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). |

| WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |

| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

| Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible. |

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN ISO 16321-1).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

> 0,3

Permeation time (penetration time) in minutes:

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> 30

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

Normally not necessary.

If air supply is not sufficient, wear protective breathing apparatus.

Filter A P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                           |                                                      |
|-----------------------------------------------------------|------------------------------------------------------|
| Physical state:                                           | Liquid                                               |
| Colour:                                                   | Light yellow                                         |
| Odour:                                                    | Characteristic                                       |
| Melting point/freezing point:                             | -40 °C (Pour Point )                                 |
| Boiling point or initial boiling point and boiling range: | There is no information available on this parameter. |
| Flammability:                                             | There is no information available on this parameter. |
| Lower explosion limit:                                    | There is no information available on this parameter. |
| Upper explosion limit:                                    | There is no information available on this parameter. |
| Flash point:                                              | 182 °C (Cleveland, open cup)                         |
| Auto-ignition temperature:                                | There is no information available on this parameter. |
| Decomposition temperature:                                | There is no information available on this parameter. |
| pH:                                                       | Mixture is non-soluble (in water).                   |
| Kinematic viscosity:                                      | 39,45 mm <sup>2</sup> /s (40°C)                      |
| Solubility:                                               | Insoluble                                            |
| Partition coefficient n-octanol/water (log value):        | Does not apply to mixtures.                          |
| Vapour pressure:                                          | There is no information available on this parameter. |
| Density and/or relative density:                          | 0,985 g/cm <sup>3</sup> (15°C)                       |
| Relative vapour density:                                  | There is no information available on this parameter. |
| Particle characteristics:                                 | Does not apply to liquids.                           |

### 9.2 Other information

No information available at present.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

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No dangerous reactions are known.

**10.4 Conditions to avoid**

See also section 7.

Heating, open flame, ignition sources

**10.5 Incompatible materials**

See also section 7.

Avoid contact with strong alkalis.

Avoid contact with strong oxidizing agents.

**10.6 Hazardous decomposition products**

See also section 5.2

No decomposition when used as directed.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Possibly more information on health effects, see Section 2.1 (classification).

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| Toxicity / effect                                             | Endpoint | Value | Unit | Organism | Test method | Notes  |
|---------------------------------------------------------------|----------|-------|------|----------|-------------|--------|
| Acute toxicity, by oral route:                                |          |       |      |          |             | n.d.a. |
| Acute toxicity, by dermal route:                              |          |       |      |          |             | n.d.a. |
| Acute toxicity, by inhalation:                                |          |       |      |          |             | n.d.a. |
| Skin corrosion/irritation:                                    |          |       |      |          |             | n.d.a. |
| Serious eye damage/irritation:                                |          |       |      |          |             | n.d.a. |
| Respiratory or skin sensitisation:                            |          |       |      |          |             | n.d.a. |
| Germ cell mutagenicity:                                       |          |       |      |          |             | n.d.a. |
| Carcinogenicity:                                              |          |       |      |          |             | n.d.a. |
| Reproductive toxicity:                                        |          |       |      |          |             | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE):   |          |       |      |          |             | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): |          |       |      |          |             | n.d.a. |
| Aspiration hazard:                                            |          |       |      |          |             | n.d.a. |
| Symptoms:                                                     |          |       |      |          |             | n.d.a. |

**Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-methyl-.omega.-methoxy-**

| Toxicity / effect                  | Endpoint | Value | Unit | Organism | Test method | Notes        |
|------------------------------------|----------|-------|------|----------|-------------|--------------|
| Skin corrosion/irritation:         |          |       |      |          |             | Not irritant |
| Serious eye damage/irritation:     |          |       |      |          |             | Not irritant |
| Respiratory or skin sensitisation: |          |       |      |          |             | Sensitising  |
| Aspiration hazard:                 |          |       |      |          |             | No           |

**hexadec-1-ene**

| Toxicity / effect                | Endpoint | Value | Unit  | Organism | Test method                                          | Notes                              |
|----------------------------------|----------|-------|-------|----------|------------------------------------------------------|------------------------------------|
| Acute toxicity, by oral route:   | LD50     | >2000 | mg/kg | Rat      | OECD 420 (Acute Oral toxicity - Fixe Dose Procedure) |                                    |
| Acute toxicity, by dermal route: | LD50     | >2000 | mg/kg | Rabbit   | OECD 402 (Acute Dermal Toxicity)                     |                                    |
| Skin corrosion/irritation:       |          |       |       | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion)         | Not irritant, Analogous conclusion |

|                                                                     |       |      |            |                        |                                                                |                                                       |
|---------------------------------------------------------------------|-------|------|------------|------------------------|----------------------------------------------------------------|-------------------------------------------------------|
| Skin corrosion/irritation:                                          |       |      |            |                        |                                                                | Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation:                                      |       |      |            | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)                      | Not irritant, Analogous conclusion                    |
| Respiratory or skin sensitisation:                                  |       |      |            | Guinea pig             | OECD 406 (Skin Sensitisation)                                  | No (skin contact), Analogous conclusion               |
| Germ cell mutagenicity:                                             |       |      |            | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                     | Negative, Analogous conclusion                        |
| Germ cell mutagenicity:                                             |       |      |            | Mouse                  | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)          | Negative                                              |
| Germ cell mutagenicity:                                             |       |      |            | Human being            | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)       | Negative, Analogous conclusion                        |
| Germ cell mutagenicity:                                             |       |      |            | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)             | Negative                                              |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 1000 | mg/kg bw/d | Rat                    | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Analogous conclusion                                  |
| Aspiration hazard:                                                  |       |      |            |                        |                                                                | Yes                                                   |

| <b>Decyloxirane</b>                |          |       |       |          |                                                        |                   |
|------------------------------------|----------|-------|-------|----------|--------------------------------------------------------|-------------------|
| Toxicity / effect                  | Endpoint | Value | Unit  | Organism | Test method                                            | Notes             |
| Acute toxicity, by oral route:     | LD50     | >5000 | mg/kg | Rat      |                                                        |                   |
| Acute toxicity, by dermal route:   | LD50     | >2000 | mg/kg | Rat      | OECD 402 (Acute Dermal Toxicity)                       |                   |
| Skin corrosion/irritation:         |          |       |       | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion)           | Irritant          |
| Serious eye damage/irritation:     |          |       |       | Rabbit   | OECD 405 (Acute Eye Irritation/Corrosion)              | Not irritant      |
| Respiratory or skin sensitisation: |          |       |       | Mouse    | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | No (skin contact) |
| Aspiration hazard:                 |          |       |       |          |                                                        | No                |

| <b>Dodecyloxirane</b>              |          |       |       |          |                                                        |                   |
|------------------------------------|----------|-------|-------|----------|--------------------------------------------------------|-------------------|
| Toxicity / effect                  | Endpoint | Value | Unit  | Organism | Test method                                            | Notes             |
| Acute toxicity, by oral route:     | LD50     | >5000 | mg/kg | Rat      |                                                        |                   |
| Acute toxicity, by dermal route:   | LD50     | >2000 | mg/kg | Rat      | OECD 402 (Acute Dermal Toxicity)                       |                   |
| Skin corrosion/irritation:         |          |       |       | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion)           | Irritant          |
| Serious eye damage/irritation:     |          |       |       | Rabbit   | OECD 405 (Acute Eye Irritation/Corrosion)              | Not irritant      |
| Respiratory or skin sensitisation: |          |       |       | Mouse    | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | No (skin contact) |
| Aspiration hazard:                 |          |       |       |          |                                                        | No                |

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| <b>2,6-di-tert-butyl-p-cresol</b>                             |                 |              |             |                 |                                              |                            |
|---------------------------------------------------------------|-----------------|--------------|-------------|-----------------|----------------------------------------------|----------------------------|
| <b>Toxicity / effect</b>                                      | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b>                           | <b>Notes</b>               |
| Acute toxicity, by oral route:                                | LD50            | >2930        | mg/kg       | Rat             | OECD 401 (Acute Oral Toxicity)               |                            |
| Acute toxicity, by dermal route:                              | LD50            | >2000        | mg/kg       | Rabbit          | OECD 402 (Acute Dermal Toxicity)             |                            |
| Skin corrosion/irritation:                                    |                 |              |             | Rabbit          | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant               |
| Serious eye damage/irritation:                                |                 |              |             | Rabbit          | (Draize-Test)                                | Not irritant               |
| Respiratory or skin sensitisation:                            |                 |              |             | Human being     |                                              | No (skin contact)          |
| Germ cell mutagenicity:                                       |                 |              |             |                 | (Ames-Test)                                  | Negative                   |
| Germ cell mutagenicity:                                       |                 |              |             | Mouse           | in vivo                                      | Negative                   |
| Carcinogenicity:                                              | NOAEL           | 247          | mg/kg bw/d  | Rat             |                                              | Negative                   |
| Reproductive toxicity (Developmental toxicity):               | NOAEL           | 100          | mg/kg       | Rat             |                                              |                            |
| Reproductive toxicity (Effects on fertility):                 | NOAEL           | 500          | mg/kg       | Rat             |                                              |                            |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOEL            | 25           | mg/kg       | Rat             |                                              | (28 d)                     |
| Aspiration hazard:                                            |                 |              |             |                 |                                              | No                         |
| Symptoms:                                                     |                 |              |             |                 |                                              | mucous membrane irritation |

| <b>Tris(methylphenyl) phosphate</b> |                 |              |             |                 |                    |                            |
|-------------------------------------|-----------------|--------------|-------------|-----------------|--------------------|----------------------------|
| <b>Toxicity / effect</b>            | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b> | <b>Notes</b>               |
| Symptoms:                           |                 |              |             |                 |                    | mucous membrane irritation |

## 11.2. Information on other hazards

| <b>Denso ND12<br/>8887200031 / 76 / 79</b> |                 |              |             |                 |                    |                                                                       |
|--------------------------------------------|-----------------|--------------|-------------|-----------------|--------------------|-----------------------------------------------------------------------|
| <b>Toxicity / effect</b>                   | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b> | <b>Notes</b>                                                          |
| Endocrine disrupting properties:           |                 |              |             |                 |                    | Does not apply to mixtures.                                           |
| Other information:                         |                 |              |             |                 |                    | No other relevant information available on adverse effects on health. |

## SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

| <b>Denso ND12<br/>8887200031 / 76 / 79</b> |                 |             |              |             |                 |                    |              |
|--------------------------------------------|-----------------|-------------|--------------|-------------|-----------------|--------------------|--------------|
| <b>Toxicity / effect</b>                   | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b> | <b>Notes</b> |
| 12.1. Toxicity to fish:                    |                 |             |              |             |                 |                    | n.d.a.       |
| 12.1. Toxicity to daphnia:                 |                 |             |              |             |                 |                    | n.d.a.       |
| 12.1. Toxicity to algae:                   |                 |             |              |             |                 |                    | n.d.a.       |
| 12.2. Persistence and degradability:       |                 |             |              |             |                 |                    | n.d.a.       |

|                                          |  |  |  |  |  |  |                                                                       |
|------------------------------------------|--|--|--|--|--|--|-----------------------------------------------------------------------|
| 12.3. Bioaccumulative potential:         |  |  |  |  |  |  | n.d.a.                                                                |
| 12.4. Mobility in soil:                  |  |  |  |  |  |  | n.d.a.                                                                |
| 12.5. Results of PBT and vPvB assessment |  |  |  |  |  |  | n.d.a.                                                                |
| 12.6. Endocrine disrupting properties:   |  |  |  |  |  |  | Does not apply to mixtures.                                           |
| 12.7. Other adverse effects:             |  |  |  |  |  |  | No information available on other adverse effects on the environment. |

| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-methyl-.omega.-methoxy- |          |      |       |      |          |             |                                     |
|-------------------------------------------------------------------|----------|------|-------|------|----------|-------------|-------------------------------------|
| Toxicity / effect                                                 | Endpoint | Time | Value | Unit | Organism | Test method | Notes                               |
| 12.5. Results of PBT and vPvB assessment                          |          |      |       |      |          |             | No PBT substance, No vPvB substance |

| hexadec-1-ene                            |          |      |       |      |                                  |                                                          |                                     |
|------------------------------------------|----------|------|-------|------|----------------------------------|----------------------------------------------------------|-------------------------------------|
| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism                         | Test method                                              | Notes                               |
| 12.1. Toxicity to fish:                  | LL50     | 96h  | >1000 | mg/l | Oncorhynchus mykiss              | OECD 203 (Fish, Acute Toxicity Test)                     |                                     |
| 12.1. Toxicity to daphnia:               | EL50     | 48h  | >1000 | mg/l | Daphnia magna                    | OECD 202 (Daphnia sp. Acute Immobilisation Test)         |                                     |
| 12.1. Toxicity to algae:                 | EL50     | 72h  | >1000 | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)                  |                                     |
| 12.2. Persistence and degradability:     |          | 28d  | 71    | %    |                                  | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Readily biodegradable               |
| 12.3. Bioaccumulative potential:         | Log Pow  |      | 8,06  |      |                                  |                                                          | Low                                 |
| 12.3. Bioaccumulative potential:         | BCF      |      | 4,37  |      |                                  |                                                          |                                     |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |                                  |                                                          | No PBT substance, No vPvB substance |

| Decyloxirane                         |           |      |         |      |                                  |                                                          |       |
|--------------------------------------|-----------|------|---------|------|----------------------------------|----------------------------------------------------------|-------|
| Toxicity / effect                    | Endpoint  | Time | Value   | Unit | Organism                         | Test method                                              | Notes |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | 0,171   | mg/l | Daphnia magna                    | OECD 202 (Daphnia sp. Acute Immobilisation Test)         |       |
| 12.1. Toxicity to algae:             | EC50      | 72h  | 0,056   | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)                  |       |
| 12.1. Toxicity to algae:             | NOEC/NOEL | 72h  | 0,00416 | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)                  |       |
| 12.2. Persistence and degradability: |           | 28d  | 60-70   | %    |                                  | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) |       |

|                                          |         |  |     |  |  |  |                                     |
|------------------------------------------|---------|--|-----|--|--|--|-------------------------------------|
| 12.3. Bioaccumulative potential:         | Log Pow |  | 5,9 |  |  |  |                                     |
| 12.5. Results of PBT and vPvB assessment |         |  |     |  |  |  | No PBT substance, No vPvB substance |

| <b>Dodecyloxirane</b>                    |                 |             |              |             |                                  |                                                          |                                     |
|------------------------------------------|-----------------|-------------|--------------|-------------|----------------------------------|----------------------------------------------------------|-------------------------------------|
| <b>Toxicity / effect</b>                 | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>                  | <b>Test method</b>                                       | <b>Notes</b>                        |
| 12.1. Toxicity to algae:                 | EC50            | 72h         | 0,00236      | mg/l        | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)                  |                                     |
| 12.1. Toxicity to algae:                 | NOEC/NOEL       | 72h         | 0,00165      | mg/l        | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)                  |                                     |
| 12.2. Persistence and degradability:     |                 |             | 60-70        | %           |                                  | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) |                                     |
| 12.3. Bioaccumulative potential:         | Log Pow         |             | 5,77         |             |                                  |                                                          |                                     |
| 12.5. Results of PBT and vPvB assessment |                 |             |              |             |                                  |                                                          | No PBT substance, No vPvB substance |

| <b>2,6-di-tert-butyl-p-cresol</b>    |                 |             |              |             |                         |                                                              |                           |
|--------------------------------------|-----------------|-------------|--------------|-------------|-------------------------|--------------------------------------------------------------|---------------------------|
| <b>Toxicity / effect</b>             | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>         | <b>Test method</b>                                           | <b>Notes</b>              |
| 12.1. Toxicity to fish:              | NOEC/NOEL       | 42d         | 0,053        | mg/l        | Oryzias latipes         | OECD 210 (Fish, Early-Life Stage Toxicity Test)              |                           |
| 12.1. Toxicity to fish:              | LC50            | 96h         | >0,57        | mg/l        | Brachydanio rerio       | 84/449/EEC C.1                                               |                           |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL       | 21d         | 0,023        | mg/l        | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)             |                           |
| 12.1. Toxicity to daphnia:           | EC50            | 48h         | 0,45         | mg/l        | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)             |                           |
| 12.1. Toxicity to algae:             | EC50            | 72h         | >0,4         | mg/l        | Desmodesmus subspicatus | 84/449/EEC C.3                                               |                           |
| 12.1. Toxicity to algae:             | EC50            | 72h         | 0,5          | mg/l        | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                      |                           |
| 12.1. Toxicity to algae:             | NOEC/NOEL       | 72h         | 0,4          | mg/l        | Desmodesmus subspicatus | 84/449/EEC C.3                                               |                           |
| 12.2. Persistence and degradability: |                 | 28d         | 4,5          | %           |                         | OECD 301 C (Ready Biodegradability - Modified MITI Test (I)) | Not readily biodegradable |
| 12.3. Bioaccumulative potential:     | Log Pow         |             | 5,1          |             |                         |                                                              | High                      |
| 12.3. Bioaccumulative potential:     | BCF             |             | 330-1800     |             | Cyprinus caprio         | OECD 305 (Bioconcentration - Flow-Through Fish Test)         |                           |

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|                                          |         |    |          |      |                  |                                                                                          |                                                                                                       |
|------------------------------------------|---------|----|----------|------|------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 12.3. Bioaccumulative potential:         |         |    | 230-2500 |      | Cyprinus carpio  | OECD 305 (Bioconcentration - Flow-Through Fish Test)                                     | 56d                                                                                                   |
| 12.4. Mobility in soil:                  | Log Koc |    | 3,9-4,2  |      |                  |                                                                                          |                                                                                                       |
| 12.4. Mobility in soil:                  | Koc     |    | 14750    |      |                  |                                                                                          |                                                                                                       |
| 12.5. Results of PBT and vPvB assessment |         |    |          |      |                  |                                                                                          | No PBT substance, No vPvB substance                                                                   |
| Toxicity to bacteria:                    | EC50    | 3h | >10000   | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |                                                                                                       |
| Other information:                       | AOX     |    |          |      |                  |                                                                                          | Does not contain any organically bound halogens which can contribute to the AOX value in waste water. |
| Water solubility:                        |         |    | 0,00076  | g/l  |                  |                                                                                          |                                                                                                       |

| Tris(methylphenyl) phosphate             |          |      |           |      |                     |             |                                                                                                       |
|------------------------------------------|----------|------|-----------|------|---------------------|-------------|-------------------------------------------------------------------------------------------------------|
| Toxicity / effect                        | Endpoint | Time | Value     | Unit | Organism            | Test method | Notes                                                                                                 |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 3,2-10    | mg/l | Oryzias latipes     |             |                                                                                                       |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 0,1-0,22  | mg/l | Lepomis macrochirus |             |                                                                                                       |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 4,8-6,4   | mg/l | Poecilia reticulata |             |                                                                                                       |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 0,21-0,32 | mg/l | Oncorhynchus mykiss |             |                                                                                                       |
| 12.1. Toxicity to algae:                 | EC50     | 72h  | 2,5       | mg/l |                     |             |                                                                                                       |
| 12.5. Results of PBT and vPvB assessment |          |      |           |      |                     |             | Negative                                                                                              |
| Other information:                       | AOX      |      |           |      |                     |             | Does not contain any organically bound halogens which can contribute to the AOX value in waste water. |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

13 02 08 other engine, gear and lubricating oils

Recommendation:

Sewage disposal shall be discouraged.

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Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Untampered packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

## SECTION 14: Transport information

### General statements

#### Transport by road/by rail (ADR/RID)

|                                   |                                                                                            |
|-----------------------------------|--------------------------------------------------------------------------------------------|
| 14.1. UN number or ID number:     | 3082                                                                                       |
| 14.2. UN proper shipping name:    | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DECYLOXIRANE, DODECYLOXIRANE) |
| 14.3. Transport hazard class(es): | 9                                                                                          |
| 14.4. Packing group:              | III                                                                                        |
| 14.5. Environmental hazards:      | environmentally hazardous                                                                  |
| Tunnel restriction code:          | -                                                                                          |
| Classification code:              | M6                                                                                         |
| LQ:                               | 5 L                                                                                        |
| Transport category:               | 3                                                                                          |



#### Transport by sea (IMDG-code)

|                                   |                                                                                            |
|-----------------------------------|--------------------------------------------------------------------------------------------|
| 14.1. UN number or ID number:     | 3082                                                                                       |
| 14.2. UN proper shipping name:    | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DECYLOXIRANE, DODECYLOXIRANE) |
| 14.3. Transport hazard class(es): | 9                                                                                          |
| 14.4. Packing group:              | III                                                                                        |
| 14.5. Environmental hazards:      | environmentally hazardous                                                                  |
| Marine Pollutant:                 | Yes                                                                                        |
| EmS:                              | F-A, S-F                                                                                   |



#### Transport by air (IATA)

|                                   |                                                                                            |
|-----------------------------------|--------------------------------------------------------------------------------------------|
| 14.1. UN number or ID number:     | 3082                                                                                       |
| 14.2. UN proper shipping name:    | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (DECYLOXIRANE, DODECYLOXIRANE) |
| 14.3. Transport hazard class(es): | 9                                                                                          |
| 14.4. Packing group:              | III                                                                                        |
| 14.5. Environmental hazards:      | environmentally hazardous                                                                  |



#### 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

#### 14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

## SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.

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Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

| Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements |
|-------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| E1                |                  | 100                                                                                                                                   | 200                                                                                                                                   |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections:

2, 3

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

## Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used                             |
|-----------------------------------------------------------------------|----------------------------------------------------|
| Skin Sens. 1, H317                                                    | Classification according to calculation procedure. |
| Aquatic Acute 1, H400                                                 | Classification according to calculation procedure. |
| Aquatic Chronic 1, H410                                               | Classification according to calculation procedure. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents.

H361f Suspected of damaging fertility if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Skin Sens. — Skin sensitization

Aquatic Acute — Hazardous to the aquatic environment - acute

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Asp. Tox. — Aspiration hazard

Skin Irrit. — Skin irritation

Repr. — Reproductive toxicity

## Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

## Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, EmCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number

gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

IUPAC International Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

mg/kg bw mg/kg body weight

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day

mg/kg dw mg/kg dry weight

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mg/kg ww mg/kg wet weight

n.a. not applicable

n.av. not available

n.c. not checked

n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT Persistent, bioaccumulative and toxic

PE Polyethylene

PMT Persistent, mobile and toxic

PNEC Predicted No Effect Concentration

ppm parts per million

PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB Very persistent and very bioaccumulative

vPvM Very persistent and very mobile

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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