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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 03.04.2019 / 0005

Replacing version dated / version: 07.05.2018 / 0004

Valid from: 03.04.2019 PDF print date: 30.08.2021

Valeo VC200yf 8887200046

# Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

## Valeo VC200yf 8887200046

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

Compressor oil for air conditioning systems

**Uses advised against:** 

No information available at present.

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

(GB)

Dometic Germany GmbH Hollefeldstr. 63

48282 Emsdetten

Tel.: +49 (0) 2572 879 0 E-Mail: info@dometic-waeco.de Homepage: www.waeco.com

Dometic UK Ltd Dometic House

The Brewery

GB- DT11 9LS Blandford St Mary, Dorset

Tel.: +44 (0) 0844 626 0133 Fax: +44 (0) 0844 626 0143 E-Mail: automotive@dometic.co.uk Homepage: www.airconstations.co.uk

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)

## **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 2 H411-Toxic to aquatic life with long lasting effects.



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#### 2.2 Label elements

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



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.

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 does not contain any substance with endocrine disrupting properties (< 0,1 %).

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

#### 3.1 Substances

n.a.

#### 3.2 Mixtures

| Poly[oxy(methyl-1,2-ethanediyl)], .alphamethylomegamethoxy-     |                    |
|---|--------------------|
| Registration number (REACH)                                     |                    |
| Index   |                    |
| EINECS, ELINCS, NLP, REACH-IT List-No.                          |                    |
| CAS   | 24991-61-5         |
| content %   | 90-<95             |
| Classification according to Regulation (EC) 1272/2008 (CLP), M- | Skin Sens. 1, H317 |
| factors   |                    |

| Decyloxirane  |                               |
|---|-------------------------------|
| Registration number (REACH)                                     | 01-2119943390-42-XXXX         |
| Index   |                               |
| EINECS, ELINCS, NLP, REACH-IT List-No.                          | 220-667-3                     |
| CAS   | 2855-19-8                     |
| content %   | 1-<2                          |
| Classification according to Regulation (EC) 1272/2008 (CLP), M- | Skin Irrit. 2, H315           |
| factors   | Aquatic Acute 1, H400 (M=10)  |
|   | Aguatic Chronic 1, H410 (M=1) |

| Dodecyloxirane              |                       |
|-----------------------------|-----------------------|
| Registration number (REACH) | 01-2119943387-29-XXXX |
| Index                       |                       |



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

| 2,6-di-tert-butyl-p-cresol                                      |                               |
|---|-------------------------------|
| Registration number (REACH)                                     | 01-2119565113-46-XXXX         |
| Index   |                               |
| EINECS, ELINCS, NLP, REACH-IT List-No.                          | 204-881-4                     |
| CAS   | 128-37-0                      |
| content %   | 0,1-<1                        |
| Classification according to Regulation (EC) 1272/2008 (CLP), M- | Aquatic Acute 1, H400 (M=1)   |
| factors   | Aquatic Chronic 1, H410 (M=1) |

| Tris(methylphenyl) phosphate                                    |                               |
|---|-------------------------------|
| Registration number (REACH)                                     | 01-2119531335-46-XXXX         |
| Index   |                               |
| EINECS, ELINCS, NLP, REACH-IT List-No.                          | 809-930-9                     |
| CAS   | 1330-78-5                     |
| content %   | 0,1-<1                        |
| Classification according to Regulation (EC) 1272/2008 (CLP), M- | Repr. 2, H361fd (oral)        |
| factors   | Aquatic Acute 1, H400 (M=1)   |
|   | 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.

#### **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.

Give copious water to drink - 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**



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#### 5.1 Extinguishing media

## Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

## 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

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.

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 unprotected persons away.

Ensure sufficient supply of air.

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

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

Fill the absorbed material into lockable containers.

Flush residue using copious water.

#### 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 eves 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.



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#### 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.

Under all circumstances prevent penetration into the soil.

Store at room temperature.

### 7.3 Specific end use(s)

No information available at present.

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

## 8.1 Control parameters

| Chemical Name          | 2,6-di-tert-butyl-p-cresol |                    | Content %:0,1-<br><1 |
|------------------------|----------------------------|--------------------|----------------------|
| WEL-TWA: 10 mg/m3      | WEL-STEL:                  |                    |                      |
| Monitoring procedures: |                            |                    |                      |
| BMGV:                  |                            | Other information: |                      |

| Decyloxirane        |  |                             |                |       |               |      |
|---------------------|--|-----------------------------|----------------|-------|---------------|------|
| Area of application | Exposure route / Environmental compartment                 | Effect on health            | Descripto<br>r | Value | Unit          | Note |
|                     | Environment - freshwater                                   |                             | PNEC           | 0,171 | μg/l          |      |
|                     | Environment - marine                                       |                             | PNEC           | 0,017 | μg/l          |      |
|                     | Environment - water,<br>sporadic (intermittent)<br>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<br>bw/d |      |
| Consumer            | Human - dermal   | Long term, systemic effects | DNEL           | 6,25  | mg/kg<br>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<br>bw/d |      |
| Workers / employees | Human - inhalation   | Long term, systemic effects | DNEL           | 36,7  | mg/m3         |      |

| Area of application | Exposure route / Environmental compartment                 | Effect on health | Descripto<br>r | Value  | Unit | Note |
|---------------------|--|------------------|----------------|--------|------|------|
|                     | Environment - freshwater                                   |                  | PNEC           | 0,002  | μg/l |      |
|                     | Environment - marine                                       |                  | PNEC           | 0,0002 | μg/l |      |
|                     | Environment - water,<br>sporadic (intermittent)<br>release |                  | PNEC           | 0,024  | µg/l |      |



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|                     | Environment - sewage treatment plant |                             | PNEC | 2,61 | mg/l          |  |
|---------------------|--------------------------------------|-----------------------------|------|------|---------------|--|
| Consumer            | Human - oral                         | Long term, systemic effects | DNEL | 6,25 | mg/kg<br>bw/d |  |
| Consumer            | Human - dermal                       | Long term, systemic effects | DNEL | 6,25 | mg/kg<br>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<br>bw/d |  |
| Workers / employees | Human - inhalation                   | Long term, systemic effects | DNEL | 36,7 | mg/m3         |  |

| Area of application | Exposure route / Environmental compartment                 | Effect on health            | Descripto<br>r | Value | Unit            | Note |
|---------------------|--|-----------------------------|----------------|-------|-----------------|------|
|                     | Environment - freshwater                                   |                             | 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 - sewage treatment plant                       |                             | PNEC           | 100   | mg/l            |      |
|                     | Environment - marine                                       |                             | PNEC           | 0     | mg/l            |      |
|                     | Environment - water,<br>sporadic (intermittent)<br>release |                             | PNEC           | 0,001 | mg/l            |      |
|                     | Environment - oral (animal feed)                           |                             | PNEC           | 0,65  | mg/kg           |      |
| Consumer            | Human - oral   | Long term, systemic effects | DNEL           | 0,05  | mg/kg           |      |
| Consumer            | Human - inhalation   | Long term, systemic effects | DNEL           | 0,08  | mg/m3           |      |
| Consumer            | Human - dermal   | Long term, systemic effects | DNEL           | 1,25  | mg/kg<br>bw/day |      |
| Workers / employees | Human - dermal   | Long term, systemic effects | DNEL           | 2,5   | mg/kg<br>bw/day |      |
| Workers / employees | Human - inhalation   | Long term, systemic effects | DNEL           | 0,46  | mg/m3           |      |

- WEL-TWA = Workplace Exposure Limit Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
- (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 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 (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit Short-term exposure limit (15-minute reference period).
- (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/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. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

#### 8.2 Exposure controls

## 8.2.1 Appropriate engineering controls



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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 166).

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:

> 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.

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: Colourless, Clear
Odour: Mild, Characteristic
Odour threshold: Not determined



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pH-value: Not determined

Melting point/freezing point: n.a.

Initial boiling point and boiling range:

Not determined

Flash point: 150-178 °C (Cleveland, open cup)

Evaporation rate: Not determined

Flammability (solid, gas): n.a.

Lower explosive limit: Not determined Upper explosive limit: Not determined Vapour pressure: Not determined Vapour density (air = 1): Not determined Density: 0,9923 g/cm3 Bulk density: Not determined Solubility(ies): Not determined Water solubility: Insoluble

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Explosive properties:

Oxidising properties:

Not determined

Not determined

Not determined

Not determined

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Not determined

Not determined

Not determined

Not determined

Solvents content:

Not determined

Not determined

## **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

No dangerous reactions are known.

### 10.4 Conditions to avoid

See also section 7.

None known

#### 10.5 Incompatible materials

See also section 7.

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 toxicological effects

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

| Valeo VC200yf                  |          |       |      |          |             |        |
|--------------------------------|----------|-------|------|----------|-------------|--------|
| 8887200046                     |          |       |      |          |             |        |
| Toxicity / effect              | Endpoint | Value | Unit | Organism | Test method | Notes  |
| Acute toxicity, by oral route: |          |       |      |          |             | n.d.a. |
| Acute toxicity, by dermal      |          |       |      |          |             | n.d.a. |
| route:                         |          |       |      |          |             |        |
| Acute toxicity, by inhalation: |          |       |      |          |             | n.d.a. |
| Skin corrosion/irritation:     |          |       |      |          |             | n.d.a. |



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| Serious eye                      | n.d.a. |  |
|----------------------------------|--------|--|
| damage/irritation:               |        |  |
| Respiratory or skin              | n.d.a. |  |
| sensitisation:                   |        |  |
| Germ cell mutagenicity:          | n.d.a. |  |
| Carcinogenicity:                 | n.d.a. |  |
| Reproductive toxicity:           | n.d.a. |  |
| Specific target organ toxicity - | n.d.a. |  |
| single exposure (STOT-SE):       |        |  |
| Specific target organ toxicity - | n.d.a. |  |
| repeated exposure (STOT-         |        |  |
| RE):                             |        |  |
| Aspiration hazard:               | n.d.a. |  |
| Symptoms:                        | n.d.a. |  |

| Poly[oxy(methyl-1,2-ethanediyl)], .alphamethylomegamethoxy- |          |       |      |          |             |              |  |  |  |  |
|---|----------|-------|------|----------|-------------|--------------|--|--|--|--|
| Toxicity / effect   | Endpoint | Value | Unit | Organism | Test method | Notes        |  |  |  |  |
| Skin corrosion/irritation:                                  | -        |       |      |          |             | Not irritant |  |  |  |  |
| Serious eye   |          |       |      |          |             | Not irritant |  |  |  |  |
| damage/irritation:  |          |       |      |          |             |              |  |  |  |  |
| Respiratory or skin   |          |       |      |          |             | Sensitising  |  |  |  |  |
| sensitisation:  |          |       |      |          |             |              |  |  |  |  |
| Aspiration hazard:  |          |       |      |          |             | No           |  |  |  |  |

| 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<br>Dermal Toxicity)                          |                   |
| Skin corrosion/irritation:         |          |       |       | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion)                 | Irritant          |
| Serious eye damage/irritation:     |          |       |       | Rabbit   | OECD 405 (Acute<br>Eye<br>Irritation/Corrosion)              | Not irritant      |
| Respiratory or skin sensitisation: |          |       |       | Mouse    | OECD 429 (Skin<br>Sensitisation - Local<br>Lymph Node Assay) | No (skin contact) |
| Aspiration hazard:                 |          |       |       |          |  | No                |

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

| 2,6-di-tert-butyl-p-cresol     |          |       |       |          |                 |       |  |  |  |
|--------------------------------|----------|-------|-------|----------|-----------------|-------|--|--|--|
| Toxicity / effect              | Endpoint | Value | Unit  | Organism | Test method     | Notes |  |  |  |
| Acute toxicity, by oral route: | LD50     | 2930  | mg/kg | Rat      | OECD 401 (Acute |       |  |  |  |
|                                |          |       |       |          | Oral Toxicity)  |       |  |  |  |



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| Acute toxicity, by dermal  | LD50 | >5000 | mg/kg | Rabbit     | OECD 402 (Acute  |          |
|----------------------------|------|-------|-------|------------|------------------|----------|
| route:                     |      |       |       |            | Dermal Toxicity) |          |
| Skin corrosion/irritation: |      |       |       |            |                  | Irritant |
| Serious eye                |      |       |       |            |                  | Irritant |
| damage/irritation:         |      |       |       |            |                  |          |
| Respiratory or skin        |      |       |       | Guinea pig | OECD 406 (Skin   | No (skin |
| sensitisation:             |      |       |       |            | Sensitisation)   | contact) |

## **SECTION 12: Ecological information**

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

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|-----------------------------|----------|------|-------|------|----------|-------------|--------|--|--|--|--|
| Toxicity / effect           | Endpoint | Time | Value | Unit | Organism | Test method | Notes  |  |  |  |  |
| 12.1. Toxicity to fish:     |          |      |       |      |          |             | n.d.a. |  |  |  |  |
| 12.1. Toxicity to           |          |      |       |      |          |             | n.d.a. |  |  |  |  |
| daphnia:                    |          |      |       |      |          |             |        |  |  |  |  |
| 12.1. Toxicity to algae:    |          |      |       |      |          |             | n.d.a. |  |  |  |  |
| 12.2. Persistence and       |          |      |       |      |          |             | n.d.a. |  |  |  |  |
| degradability:              |          |      |       |      |          |             |        |  |  |  |  |
| 12.3. Bioaccumulative       |          |      |       |      |          |             | n.d.a. |  |  |  |  |
| potential:                  |          |      |       |      |          |             |        |  |  |  |  |
| 12.4. Mobility in soil:     |          |      |       |      |          |             | n.d.a. |  |  |  |  |
| 12.5. Results of PBT        |          |      |       |      |          |             | n.d.a. |  |  |  |  |
| and vPvB assessment         |          |      |       |      |          |             |        |  |  |  |  |
| 12.6. Other adverse         |          |      |       |      |          |             | n.d.a. |  |  |  |  |
| effects:                    |          |      |       |      |          |             |        |  |  |  |  |

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

| Decyloxirane             | Decyloxirane |      |         |      |                  |                  |                |  |  |  |  |
|--------------------------|--------------|------|---------|------|------------------|------------------|----------------|--|--|--|--|
| Toxicity / effect        | Endpoint     | Time | Value   | Unit | Organism         | Test method      | Notes          |  |  |  |  |
| 12.5. Results of PBT     |              |      |         |      |                  |                  | No PBT         |  |  |  |  |
| and vPvB assessment      |              |      |         |      |                  |                  | substance, No  |  |  |  |  |
|                          |              |      |         |      |                  |                  | vPvB substance |  |  |  |  |
| 12.1. Toxicity to        | EC50         | 48h  | 0,171   | mg/l | Daphnia magna    | OECD 202         |                |  |  |  |  |
| daphnia:                 |              |      |         |      |                  | (Daphnia sp.     |                |  |  |  |  |
|                          |              |      |         |      |                  | Acute            |                |  |  |  |  |
|                          |              |      |         |      |                  | Immobilisation   |                |  |  |  |  |
|                          |              |      |         |      |                  | Test)            |                |  |  |  |  |
| 12.1. Toxicity to algae: | EC50         | 72h  | 0,056   | mg/l | Pseudokirchnerie | OECD 201         |                |  |  |  |  |
|                          |              |      |         |      | lla subcapitata  | (Alga, Growth    |                |  |  |  |  |
|                          |              |      |         |      |                  | Inhibition Test) |                |  |  |  |  |
| 12.1. Toxicity to algae: | NOEC/NOEL    | 72h  | 0,00416 | mg/l | Pseudokirchnerie | OECD 201         |                |  |  |  |  |
|                          |              |      |         |      | lla subcapitata  | (Alga, Growth    |                |  |  |  |  |
|                          |              |      |         |      | •                | Inhibition Test) |                |  |  |  |  |

| Dodecyloxirane                           |          |      |         |      |                                     |   |   |
|--|----------|------|---------|------|-------------------------------------|---|---|
| Toxicity / effect                        | Endpoint | Time | Value   | Unit | Organism                            | Test method                                   | Notes                                     |
| 12.5. Results of PBT and vPvB assessment |          |      |         |      |                                     |   | No PBT<br>substance, No<br>vPvB substance |
| 12.1. Toxicity to algae:                 | EC50     | 72h  | 0,00236 | mg/l | Pseudokirchnerie<br>Ila subcapitata | OECD 201<br>(Alga, Growth<br>Inhibition Test) |   |



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| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | 0,00165 | mg/l | Pseudokirchnerie | OECD 201         |
|--------------------------|-----------|-----|---------|------|------------------|------------------|
|                          |           |     |         |      | lla subcapitata  | (Alga, Growth    |
|                          |           |     |         |      |                  | Inhibition Test) |

| 2,6-di-tert-butyl-p-cresol |           |      |       |      |               |                    |               |  |  |  |
|----------------------------|-----------|------|-------|------|---------------|--------------------|---------------|--|--|--|
| Toxicity / effect          | Endpoint  | Time | Value | Unit | Organism      | Test method        | Notes         |  |  |  |
| 12.1. Toxicity to          | NOEC/NOEL | 21d  | >0,39 | mg/l | Daphnia magna |                    |               |  |  |  |
| daphnia:                   |           |      |       |      |               |                    |               |  |  |  |
| 12.1. Toxicity to fish:    | LC50      | 96h  | 0,199 | mg/l |               |                    |               |  |  |  |
| 12.1. Toxicity to          | EC50      | 48h  | 0,31  | mg/l |               |                    |               |  |  |  |
| daphnia:                   |           |      |       |      |               |                    |               |  |  |  |
| 12.1. Toxicity to algae:   | IC50      | 72h  | 0,42  | mg/l |               |                    |               |  |  |  |
| 12.2. Persistence and      |           |      | 30    | %    |               | OECD 302 C         | Not readily   |  |  |  |
| degradability:             |           |      |       |      |               | (Inherent          | biodegradable |  |  |  |
|                            |           |      |       |      |               | Biodegradability - |               |  |  |  |
|                            |           |      |       |      |               | Modified MITI      |               |  |  |  |
|                            |           |      |       |      |               | Test (II))         |               |  |  |  |
| 12.3. Bioaccumulative      | BCF       |      | 598   |      |               |                    | Concentration |  |  |  |
| potential:                 |           |      |       |      |               |                    | in organisms  |  |  |  |
|                            |           |      |       |      |               |                    | possible.     |  |  |  |

| Tris(methylphenyl) p | is(methylphenyl) phosphate |      |       |      |          |             |   |
|----------------------|----------------------------|------|-------|------|----------|-------------|---|
| Toxicity / effect    | Endpoint                   | Time | Value | Unit | Organism | Test method | Notes   |
| Other information:   |                            |      |       |      |          |             | 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.

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.

Uncontaminated packaging can be recycled.

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

15 01 10 packaging containing residues of or contaminated by hazardous substances

## **SECTION 14: Transport information**

#### **General statements**

14.1. UN number: 3082



. (GB)

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

14.2. UN proper shipping name:

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(DECYLOXIRANE, DODECYLOXIRANE)

14.3. Transport hazard class(es):914.4. Packing group:IIIClassification code:M6LQ:5 L

14.5. Environmental hazards: environmentally hazardous

Tunnel restriction code:

### Transport by sea (IMDG-code)

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DECYLOXIRANE, DODECYLOXIRANE)

14.3. Transport hazard class(es):

14.4. Packing group:

EmS:

F-A, S-F

Marine Pollutant:

Yes

14.5. Environmental hazards: environmentally hazardous

#### Transport by air (IATA)

14.2. UN proper shipping name:

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. Transport in bulk according to Annex II of MARPOL and the IBC Code

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.

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.):

|   | considered decording to storage, nandling etc.). |  |                                  |                                  |
|---|--|--|----------------------------------|----------------------------------|
|   | Hazard categories Notes to Annex I               |  | Qualifying quantity (tonnes) of  | Qualifying quantity (tonnes) of  |
|   |  |  | dangerous substances as          | dangerous substances as          |
| ı |  |  | referred to in Article 3(10) for | referred to in Article 3(10) for |
|   |  |  | the application of - Lower-tier  | the application of - Upper-tier  |
|   |  |  | requirements                     | requirements                     |
| ı | E1   |  | 100                              | 200                              |
| ı | F2   |  | 200                              | 500                              |

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.

#### REGULATION (EC) No 648/2004

n.a.









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Observe incident regulations.

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

Revised sections:

1 - 16

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 | Evaluation method used                             |
|---|--|--|
|   | (EC) No. 1272/2008 (CLP)                     |  |
|   | Skin Sens. 1, H317                           | Classification according to calculation procedure. |
|   | Aquatic Acute 1, H400                        | Classification according to calculation procedure. |
| ĺ | Aquatic Chronic 2, H411                      | 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 (specified in Section 2 and 3).

H361fd Suspected of damaging fertility and the unborn child if swallowed.

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.

Skin Sens. — Skin sensitization

Aquatic Acute — Hazardous to the aquatic environment - acute Aquatic Chronic — Hazardous to the aquatic environment - chronic

Skin Irrit. — Skin irritation Repr. — Reproductive toxicity

## 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

bw body weight

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



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DNEL Derived No Effect Level DOC Dissolved organic carbon

dw dry weight

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, EµCx, 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

IUCLIDInternational 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

Log Kow, Log Pow Log Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable n.av. not available n.c. not checked n.d.a. no data available

NLP No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

PBT persistent, bioaccumulative and toxic

PE Polyethylene

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. 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



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vPvB very persistent and very bioaccumulative

wet weight

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: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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