

Page 1 of 17

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

Revision date / version: 25.01.2021 / 0009

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Denso ND12

8887200031 / 8887200076

# 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

## Denso ND12 8887200031 / 8887200076

## 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

(GB)

Dometic Germany GmbH Hollefeldstr. 63

48282 Emsdetten
Tel.: +49 (0) 2572 879 0
Fax: +49 (0) 2572 879 300
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.

Aguatic Acute 1 H400-Very toxic to aquatic life.

Aquatic Chronic 2 H411-Toxic to aquatic life with long lasting effects.



Page 2 of 17

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

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008

Valid from: 25.01.2021 PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

#### 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. P391-Collect spillage.

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

#### 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 %).

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

#### 3.1 Substances

n.a.

#### 3.2 Mixtures

| OIZ IMATO   |                    |
|---|--------------------|
| Poly[oxy(methyl-1,2-ethanediyl)], .alphamethylomegamethoxy- |                    |
| Registration number (REACH)                                 |                    |
| Index   |                    |
| EINECS, ELINCS, NLP   |                    |
| CAS   | 24991-61-5         |
| content %   | 80-<95             |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Sens. 1, H317 |

| Decyloxirane  |                               |
|---|-------------------------------|
| Registration number (REACH)                                 |                               |
| Index   |                               |
| EINECS, ELINCS, NLP   | 220-667-3                     |
| CAS   | 2855-19-8                     |
| content %   | 1-<2                          |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Irrit. 2, H315           |
|   | Aquatic Acute 1, H400 (M=10)  |
|   | Aguatic Chronic 1, H410 (M=1) |

| Dodecyloxirane              |           |
|-----------------------------|-----------|
| Registration number (REACH) |           |
| Index                       |           |
| EINECS, ELINCS, NLP         | 221-781-6 |



Page 3 of 17

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

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008

Valid from: 25.01.2021 PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

| CAS   | 3234-28-4                      |
|---|--------------------------------|
| content %   | 1-<2                           |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Irrit. 2, H315            |
|   | Aquatic Acute 1, H400 (M=100)  |
|   | Aquatic Chronic 1, H410 (M=10) |

| 2,6-di-tert-butyl-p-cresol                                  |                               |
|---|-------------------------------|
| Registration number (REACH)                                 | 01-2119555270-46-XXXX         |
| Index   |                               |
| EINECS, ELINCS, NLP   | 204-881-4                     |
| CAS   | 128-37-0                      |
| content %   | 0,1-<1                        |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Aquatic Acute 1, H400 (M=1)   |
|   | Aquatic Chronic 1, H410 (M=1) |

| Tris(methylphenyl) phosphate                                |                               |
|---|-------------------------------|
| Registration number (REACH)                                 |                               |
| Index   |                               |
| EINECS, ELINCS, NLP   | 215-548-8                     |
| CAS   | 1330-78-5                     |
| content %   | 0,1-<1                        |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Aquatic Acute 1, H400 (M=1)   |
|   | Repr. 2, H361                 |
|   | Aquatic Chronic 1, H410 (M=1) |

| Tris(nonylphenyl) phosphite                                 |                               |
|---|-------------------------------|
| Registration number (REACH)                                 |                               |
| Index   | 015-202-00-4                  |
| EINECS, ELINCS, NLP   | 247-759-6                     |
| CAS   | 26523-78-4                    |
| content %   | 0,1-<0,8                      |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Sens. 1, H317            |
|   | 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.

Do not induce vomiting. Consult doctor immediately.

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



(GB)

Page 4 of 17

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

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008

Valid from: 25.01.2021 PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

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

Toxic gases

## 5.3 Advice for firefighters

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

Keep non-essential personnel away.

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

#### 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) and dispose of according to Section 13. 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.



. (B)

Page 5 of 17

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

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008

Valid from: 25.01.2021 PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

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.

Store in a well-ventilated place.

Store cool.

Store in a dry place.

#### 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:                  | Ot                         | her information:     |

| Decyloxirane        |  |                             |                |                |               |      |
|---------------------|--|-----------------------------|----------------|----------------|---------------|------|
| Area of application | Exposure route / Environmental compartment                 | Effect on health            | Descripto<br>r | Value          | Unit          | Note |
|                     | Environment - freshwater Environment - marine              |                             | PNEC<br>PNEC   | 0,171<br>0,017 | μg/l<br>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         |      |

| Dodecyloxirane      |                          |                  |           |        |      |      |
|---------------------|--------------------------|------------------|-----------|--------|------|------|
| Area of application | Exposure route /         | Effect on health | Descripto | Value  | Unit | Note |
|                     | Environmental            |                  | r         |        |      |      |
|                     | compartment              |                  |           |        |      |      |
|                     | Environment - freshwater |                  | PNEC      | 0,002  | μg/l |      |
|                     | Environment - marine     |                  | PNEC      | 0,0002 | μg/l |      |



Page 6 of 17 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008 Valid from: 25.01.2021

PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

|                     | Environment - water,<br>sporadic (intermittent)<br>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<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     | Effect on health            | Descripto<br>r | Value   | Unit            | Note |
|---------------------|------------------------------------|-----------------------------|----------------|---------|-----------------|------|
|                     | compartment Environment - soil     |                             | PNEC           | 1.04    | mg/kg wwt       |      |
|                     | Environment - sewage               |                             | PNEC           | 0.17    | mg/l            |      |
|                     | treatment plant                    |                             | FINEC          | 0,17    | ilig/i          |      |
|                     | Environment - sediment             |                             | PNEC           | 1.29    | mg/kg wwt       |      |
|                     | Environment - marine               |                             | PNEC           | 0,02    | μg/l            |      |
|                     | Environment - water,               |                             | PNEC           | 1,99    | μg/l            |      |
|                     | sporadic (intermittent)            |                             |                | .,00    | F-9/ ·          |      |
|                     | Environment - freshwater           |                             | PNEC           | 0,199   | μg/l            |      |
|                     | Environment - oral (animal         |                             | PNEC           | 8,33    | mg/kg           |      |
|                     | feed)                              |                             |                |         | feed            |      |
|                     | Environment - soil                 |                             | PNEC           | 0,04769 | mg/kg dw        |      |
|                     | Environment - sediment, freshwater |                             | PNEC           | 0,0996  | mg/kg dw        |      |
|                     | Environment - sediment, marine     |                             | PNEC           | 0,00996 | mg/kg dw        |      |
| Consumer            | Human - inhalation                 | Long term, systemic effects | DNEL           | 0,86    | mg/m3           |      |
| Consumer            | Human - dermal                     | Long term, systemic effects | DNEL           | 0,25    | mg/kg<br>bw/d   |      |
| Consumer            | Human - oral                       | Long term, systemic effects | DNEL           | 0,25    | mg/kg<br>bw/day |      |
| Workers / employees | Human - inhalation                 | Long term, systemic effects | DNEL           | 3,5     | mg/m3           |      |
| Workers / employees | Human - dermal                     | Long term, systemic effects | DNEL           | 0,5     | mg/kg<br>bw/day |      |

| Tris(methylphenyl) pho | sphate                             |                  |                |       |                     |      |
|------------------------|------------------------------------|------------------|----------------|-------|---------------------|------|
| Area of application    | Exposure route /<br>Environmental  | Effect on health | Descripto<br>r | Value | Unit                | Note |
|                        | compartment                        |                  |                |       |                     |      |
|                        | Environment - freshwater           |                  | PNEC           | 0,001 | mg/l                |      |
|                        | Environment - sediment, freshwater |                  | PNEC           | 2,05  | mg/kg dry<br>weight |      |
|                        | Environment - sediment, marine     |                  | PNEC           | 0,205 | mg/kg dry<br>weight |      |
|                        | Environment - soil                 |                  | PNEC           | 1,01  | mg/kg dry<br>weight |      |



Page 7 of 17

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

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008

Valid from: 25.01.2021 PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

|                     | Environment - oral (animal           |                             | PNEC | 0,65 | mg/kg           |  |
|---------------------|--------------------------------------|-----------------------------|------|------|-----------------|--|
|                     | feed)                                |                             |      |      | feed            |  |
|                     | Environment - sewage treatment plant |                             | PNEC | 100  | mg/l            |  |
| Consumer            | Human - oral                         | Long term, systemic effects | DNEL | 0,05 | mg/kg<br>bw/day |  |
| 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/d   |  |
| 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

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 374).

Recommended

Protective nitrile gloves (EN 374).

Minimum layer thickness in mm:

> 0,3

Permeation time (penetration time) in minutes:

480

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



Page 8 of 17

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

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008

Valid from: 25.01.2021 PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

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.

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 Odour threshold: Not determined pH-value: Not determined

Melting point/freezing point: -40 °C (Pour Point) Initial boiling point and boiling range: Not determined

Flash point: 182 °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: 0,985 g/cm3 (15°C)

Bulk density: n.a.

Not determined Solubility(ies): Water solubility: Insoluble Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: Not determined Decomposition temperature: Not determined Viscosity: 39,45 mm2/s (40°C) 9,079 mm2/s (100°C) Viscosity: Explosive properties: Product is not explosive.

Oxidising properties: No

9.2 Other information

Miscibility: Not determined Fat solubility / solvent: Not determined Conductivity: Not determined Surface tension: Not determined Solvents content: Not determined

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



Page 9 of 17

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

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008

Valid from: 25.01.2021 PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

#### 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).

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|----------------------------------|----------|-------|------|----------|-------------|--------|
| 8887200031 / 8887200076          |          |       |      |          |             |        |
| 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. |
| 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-ethane | ediyl)], .alpha | methylomega | methoxy- |          |             |              |
|----------------------------|-----------------|-------------|----------|----------|-------------|--------------|
| 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           |

| Decyloxirane                   |          |       |       |          |             |       |
|--------------------------------|----------|-------|-------|----------|-------------|-------|
| Toxicity / effect              | Endpoint | Value | Unit  | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50     | >5000 | mg/kg | Rat      |             |       |



Page 10 of 17 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008 Valid from: 25.01.2021

PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat    | OECD 402 (Acute<br>Dermal Toxicity) |              |
|----------------------------------|------|-------|-------|--------|-------------------------------------|--------------|
| Skin corrosion/irritation:       |      |       |       | Rabbit | OECD 404 (Acute                     | Irritant     |
|                                  |      |       |       |        | Dermal<br>Irritation/Corrosion)     |              |
| Serious eye                      |      |       |       | Rabbit | OECD 405 (Acute                     | Not irritant |
| damage/irritation:               |      |       |       |        | Eye<br>Irritation/Corrosion)        |              |
| Respiratory or skin              |      |       |       | Mouse  | OECD 429 (Skin                      | No (skin     |
| sensitisation:                   |      |       |       |        | Sensitisation - Local               | contact)     |
|                                  |      |       |       |        | Lymph Node Assay)                   |              |
| 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<br>Oral Toxicity)   |                   |
| Acute toxicity, by dermal route:                              | LD50     | >2000 | mg/kg         | Rabbit      | OECD 402 (Acute<br>Dermal Toxicity) |                   |
| Skin corrosion/irritation:                                    |          |       |               | Rabbit      | •                                   | 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<br>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        |

| Tris(methylphenyl) phosphate   |          |       |       |          |             |                      |  |  |
|--------------------------------|----------|-------|-------|----------|-------------|----------------------|--|--|
| Toxicity / effect              | Endpoint | Value | Unit  | Organism | Test method | Notes                |  |  |
| Acute toxicity, by oral route: | LD50     | >3700 | mg/kg | Rat      |             | Analogous conclusion |  |  |
|                                |          |       |       |          |             |                      |  |  |



Page 11 of 17

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

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008

Valid from: 25.01.2021 PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

| Acute toxicity, by dermal        | LD0  | 10000 | mg/kg   | Rabbit     |             | Analogous         |
|----------------------------------|------|-------|---------|------------|-------------|-------------------|
| route:                           |      |       |         |            |             | conclusion        |
| Acute toxicity, by inhalation:   | LC50 | 11,1  | mg/l/1h |            |             | Aerosol           |
| Skin corrosion/irritation:       |      |       |         |            |             | Slightly irritant |
| Serious eye                      |      |       |         |            |             | Slightly irritant |
| damage/irritation:               |      |       |         |            |             |                   |
| Respiratory or skin              |      |       |         | Guinea pig |             | Negative          |
| sensitisation:                   |      |       |         |            |             |                   |
| Germ cell mutagenicity:          |      |       |         |            | (Ames-Test) | Negative          |
| Carcinogenicity:                 |      |       |         |            |             | Negative          |
| Reproductive toxicity:           |      |       |         |            |             | Positive          |
| Specific target organ toxicity - | NOEL | 250   | mg/kg   | Rat        |             |                   |
| repeated exposure (STOT-RE):     |      |       |         |            |             |                   |

| Tris(nonylphenyl) phosphite    |          |       |       |            |                |                |  |  |
|--------------------------------|----------|-------|-------|------------|----------------|----------------|--|--|
| Toxicity / effect              | Endpoint | Value | Unit  | Organism   | Test method    | Notes          |  |  |
| Acute toxicity, by oral route: | LD50     | 19500 | mg/kg | Rat        |                |                |  |  |
| Respiratory or skin            |          |       |       | Guinea pig | OECD 406 (Skin | Sensitising    |  |  |
| sensitisation:                 |          |       |       |            | Sensitisation) | (skin contact) |  |  |

## **SECTION 12: Ecological information**

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

| Denso ND12               |          |      |       |      |          |             |        |
|--------------------------|----------|------|-------|------|----------|-------------|--------|
| 8887200031 / 88872000    | )76      |      |       |      |          |             |        |
| 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)          |                |  |



Page 12 of 17 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008

Valid from: 25.01.2021 PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

| 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     | _         |      |         |      |                  |                  | No PBT         |
| and vPvB assessment      |           |      |         |      |                  |                  | substance, No  |
|                          |           |      |         |      |                  |                  | vPvB substance |
| 12.1. Toxicity to algae: | EC50      | 72h  | 0,00236 | mg/l | Pseudokirchnerie | OECD 201         |                |
|                          |           |      |         |      | lla subcapitata  | (Alga, Growth    |                |
|                          |           |      |         |      |                  | Inhibition Test) |                |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h  | 0,00165 | mg/l | Pseudokirchnerie | OECD 201         |                |
|                          |           |      |         |      | lla subcapitata  | (Alga, Growth    |                |
|                          |           |      |         |      |                  | Inhibition Test) |                |

| Toxicity / effect                    | Endpoint  | Time | Value        | Unit | Organism                | Test method  | Notes                     |
|--------------------------------------|-----------|------|--------------|------|-------------------------|--|---------------------------|
| 12.4. Mobility in soil:              | Log Koc   |      | 3,9-4,2      |      |                         |  |                           |
| Other information:                   | Koc       |      | 14750        |      |                         |  |                           |
| Other information:                   | Log Koc   |      | 3,9-4,2      |      |                         |  |                           |
| 12.1. Toxicity to fish:              | LC50      | 96h  | >0,57        | mg/l | Brachydanio rerio       | 84/449/EEC C.1   |                           |
| 12.1. Toxicity to fish:              | NOEC/NOEL | 42d  | 0,053        | mg/l | Oryzias latipes         | OECD 210<br>(Fish, Early-Life<br>Stage Toxicity<br>Test)                 |                           |
| 12.3. Bioaccumulative potential:     |           |      | 230-<br>2500 |      | Cyprinus carpio         | OECD 305<br>(Bioconcentration<br>- Flow-Through<br>Fish Test)            | 56d                       |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | 0,45         | mg/l | Daphnia magna           | OECD 202<br>(Daphnia sp.<br>Acute<br>Immobilisation<br>Test)             |                           |
| 12.1. Toxicity to<br>daphnia:        | NOEC/NOEL | 21d  | 0,023        | mg/l | Daphnia magna           | OECD 202<br>(Daphnia sp.<br>Acute<br>Immobilisation<br>Test)             |                           |
| 12.1. Toxicity to algae:             | NOEC/NOEL | 72h  | 0,4          | mg/l | Desmodesmus subspicatus | 84/449/EEC C.3   |                           |
| 12.1. Toxicity to algae:             | EC50      | 72h  | >0,4         | mg/l | Desmodesmus subspicatus | 84/449/EEC C.3   |                           |
| 12.2. Persistence and degradability: |           | 28d  | 4,5          | %    |                         | OECD 301 C<br>(Ready<br>Biodegradability -<br>Modified MITI<br>Test (I)) | Not readily biodegradable |
| 12.3. Bioaccumulative potential:     | Log Pow   |      | 5,1          |      |                         |  | High                      |
| 12.3. Bioaccumulative potential:     | BCF       |      | >2000        |      | Cyprinus caprio         | OECD 305<br>(Bioconcentration<br>- Flow-Through<br>Fish Test)            |                           |
| 12.4. Mobility in soil:              | Koc       |      | 14750        |      |                         | ,  |                           |
| 12.5. Results of PBT                 |           |      |              |      |                         |  | No PBT                    |
| and vPvB assessment                  |           |      |              |      |                         |  | substance                 |



Page 13 of 17 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008

Valid from: 25.01.2021 PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

| 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  |                  |  |   |

| Toxicity / effect                        | Endpoint  | Time | Value  | Unit | Organism                | Test method  | Notes   |
|--|-----------|------|--------|------|-------------------------|--|---|
| 12.1. Toxicity to fish:                  | LC50      | 96h  | 0,6    | mg/l |                         |  |   |
| 12.1. Toxicity to fish:                  | NOEC/NOEL | 28d  | 0,01   | mg/l | Oncorhynchus mykiss     |  |   |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | 0,14   | mg/l | Daphnia magna           |  |   |
| 12.1. Toxicity to algae:                 | EC50      | 72h  | 0,4    | mg/l | Desmodesmus subspicatus |  |   |
| 12.2. Persistence and degradability:     |           |      | 80     | %    |                         |  | Readily biodegradable   |
| 12.3. Bioaccumulative potential:         | BCF       |      | 144    |      |                         |  |   |
| 12.5. Results of PBT and vPvB assessment |           |      |        |      |                         |  | No PBT<br>substance, No<br>vPvB substance   |
| Toxicity to bacteria:                    | EC50      |      | >10000 | mg/l | activated sludge        | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |   |
| Other information:                       |           |      |        |      |                         |  | Does not contain any organically bound halogens which can contribute to the AOX value in waste water. |

| Tris(nonylphenyl) phosphite |          |      |       |      |          |             |                  |  |
|-----------------------------|----------|------|-------|------|----------|-------------|------------------|--|
| Toxicity / effect           | Endpoint | Time | Value | Unit | Organism | Test method | Notes            |  |
| 12.1. Toxicity to daphnia:  | EC50     | 48h  | 0,46  | mg/l |          |             | calculated value |  |

## **SECTION 13: Disposal considerations**



Page 14 of 17

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

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008

Valid from: 25.01.2021 PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

#### 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.

## **SECTION 14: Transport information**

#### **General statements**

14.1. UN number: 3082

#### 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:M6LO: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):914.4. Packing group:IIIEmS:F-A, S-FMarine 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.









Page 15 of 17

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

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008

Valid from: 25.01.2021 PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

## **SECTION 15: Regulatory information**

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

Observe restrictions:

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 according to storage | , nanding etc.). |                                  |                                  |
|---------------------------------|------------------|----------------------------------|----------------------------------|
| Hazard categories               | Notes to Annex I | Qualifying quantity (tonnes) of  | Qualifying quantity (tonnes) of  |
|                                 |                  | dangerous substances as          | dangerous substances as          |
|                                 |                  | 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                     |
| E1                              |                  | 100                              | 200                              |
| E2                              |                  | 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.

Directive 2010/75/EU (VOC):

< 1 %

Observe incident regulations.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## **SECTION 16: Other information**

Revised sections:

1

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. |  |  |
| 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).

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

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



Page 16 of 17

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

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008

Valid from: 25.01.2021 PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

## 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)

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

DNEL Derived No Effect Level

dw dry weight

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

EC European Community
ECHA European Chemicals Agency
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)

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

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)

LQ 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

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



(GB)

Page 17 of 17

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

Revision date / version: 25.01.2021 / 0009

Replacing version dated / version: 22.02.2019 / 0008

Valid from: 25.01.2021 PDF print date: 26.01.2021

Denso ND12

8887200031 / 8887200076

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

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt 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:

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