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Page 1 of 19

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

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011

Valid from: 04.10.2023 PDF print date: 04.10.2023

Denso ND12

# 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**

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

Lubricant

#### Uses advised against:

No information available at present.

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

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

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

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

#### 1.4 Emergency telephone number

Emergency information services / official advisory body:

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

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

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

#### 2.1 Classification of the substance or mixture

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

Hazard class Hazard category Hazard statement

Skin Sens. 1 H317-May cause an allergic skin reaction.

Aquatic Acute 1 H400-Very toxic to aquatic life.

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

#### 2.2 Label elements

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



Page 2 of 19

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

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011

Valid from: 04.10.2023 PDF print date: 04.10.2023

Denso ND12



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

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

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

Tris(nonylphenyl) phosphite

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

#### 2.3 Other hazards

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

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

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

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

#### 3.1 Substances

## n.a. **3.2 Mixtures**

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

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

01-2119943390-42-XXXX
220-667-3
2855-19-8
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Page 3 of 19

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

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011

Valid from: 04.10.2023 PDF print date: 04.10.2023

Denso ND12

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

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

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

2,6-di-tert-butyl-p-cresol	
Registration number (REACH)	01-2119555270-46-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, H361f (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.

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

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

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

#### **Skin contact**



GB)

Page 4 of 19

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

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011

Valid from: 04.10.2023 PDF print date: 04.10.2023

Denso ND12

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

### Eye contact

Remove contact lenses.

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

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. Allergic reaction possible.

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

Symptomatic treatment.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media Suitable extinguishing media

CO<sub>2</sub>

Foam

Dry extinguisher

Water mist

#### Unsuitable extinguishing media

High volume water jet

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

In case of fire the following can develop:

Oxides of carbon

Oxides of phosphorus

Toxic gases

#### 5.3 Advice for firefighters

For personal protective equipment see Section 8.

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

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

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

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

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

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

Keep non-essential personnel away.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

#### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

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

Prevent from entering drainage system.



Page 5 of 19

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

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011

Valid from: 04.10.2023 PDF print date: 04.10.2023

Denso ND12

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.

Fill the absorbed material into lockable containers. Do not wash away with water or watery cleaning agents.

#### 6.4 Reference to other sections

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

## **SECTION 7: Handling and storage**

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

#### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes or skin.

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

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

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

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

## 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Protect from direct sunlight and warming.

Store in a well-ventilated place.

Store cool.

Store in a dry place.

#### 7.3 Specific end use(s)

No information available at present.

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

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

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

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

#### 8.1 Control parameters

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

hexadec-1-ene						
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	0,001	mg/l	
	Environment - sediment		PNEC	0,001	mg/l	
	Environment - water, sporadic (intermittent)		PNEC	0,001	mg/l	
	release					



Page 6 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011 Valid from: 04.10.2023

PDF print date: 04.10.2023

Environment - sediment,	PNEC	426,58	mg/kg dw	
freshwater				
Environment - sediment,	PNEC	426,58	mg/kg dw	
marine				
Environment - soil	PNEC	85,3	mg/kg dw	

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

Dodecyloxirane					1	
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	
	Environment - water,		PNEC	0,024	μg/l	
	sporadic (intermittent)					
	release					
	Environment - sewage		PNEC	2,61	mg/l	
	treatment plant					
Consumer	Human - oral	Long term, systemic	DNEL	6,25	mg/kg	
		effects			bw/d	
Consumer	Human - dermal	Long term, systemic	DNEL	6,25	mg/kg	
		effects			bw/d	
Consumer	Human - inhalation	Long term, systemic	DNEL	10,9	mg/m3	
		effects				
Workers / employees	Human - dermal	Long term, systemic	DNEL	10,4	mg/kg	
		effects			bw/d	
Workers / employees	Human - inhalation	Long term, systemic	DNEL	36,7	mg/m3	
		effects				

Tris(nonylphenyl) phosph	ite					
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	50	μg/l	
	Environment - marine		PNEC	50	μg/l	



Page 7 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011 Valid from: 04.10.2023

PDF print date: 04.10.2023

	Environment - water, sporadic (intermittent) release		PNEC	50	mg/l
	Environment - sediment, freshwater		PNEC	0,15	mg/kg dw
	Environment - sediment, marine		PNEC	0,15	mg/kg dw
	Environment - oral (animal feed)		PNEC	37	mg/kg feed
	Environment - sewage treatment plant		PNEC	1,8	mg/l
Consumer	Human - oral	Long term, systemic effects	DNEL	1,67	mg/kg bw/d
Consumer	Human - dermal	Short term, systemic effects	DNEL	8,35	mg/kg bw/d
Consumer	Human - inhalation	Long term, systemic effects	DNEL	11,8	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	16,7	mg/kg bw/d
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	23,6	mg/m3

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

Tris(methylphenyl) phos	phate					
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	0,001	mg/l	
	Environment - marine		PNEC	0	mg/l	



(GB)

Page 8 of 19

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

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011

Valid from: 04.10.2023 PDF print date: 04.10.2023

Denso ND12

	Environment - water, sporadic (intermittent) release		PNEC	0,001	mg/l
	Environment - sediment, freshwater		PNEC	2,05	mg/kg dw
	Environment - sediment, marine		PNEC	0,205	mg/kg dw
	Environment - soil		PNEC	1,01	mg/kg dw
	Environment - oral (animal feed)		PNEC	0,65	mg/kg feed
	Environment - sewage treatment plant		PNEC	100	mg/l
Consumer	Human - oral	Long term, systemic effects	DNEL	0,02	mg/kg bw/d
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,15	mg/kg bw/d
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,03	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,41	mg/kg bw/d
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,18	mg/m3

- 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 ISO 374).



Page 9 of 19

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

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011

Valid from: 04.10.2023 PDF print date: 04.10.2023

Denso ND12

Recommended

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

> 0,3

Permeation time (penetration time) in minutes:

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

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

Protective hand cream recommended.

Skin protection - Other:

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

Respiratory protection:

Normally not necessary.

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

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

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

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

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

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

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

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

#### 8.2.3 Environmental exposure controls

No information available at present.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state: Liquid Colour: Light yellow Characteristic Odour: Melting point/freezing point: -40 °C (Pour Point)

Boiling point or initial boiling point and boiling range: There is no information available on this parameter.

Flammability: There is no information available on this parameter. Lower explosion limit: There is no information available on this parameter. Upper explosion limit: There is no information available on this parameter.

Flash point: 182 °C (Cleveland, open cup)

Auto-ignition temperature: There is no information available on this parameter. Decomposition temperature: There is no information available on this parameter.

рН: Mixture is non-soluble (in water).

Kinematic viscosity: 39,45 mm2/s (40°C) Insoluble

Solubility:

Partition coefficient n-octanol/water (log value): Does not apply to mixtures.

Vapour pressure: There is no information available on this parameter.

Density and/or relative density: 0,985 g/cm3 (15°C)

Relative vapour density: There is no information available on this parameter. Particle characteristics:

Does not apply to liquids.

#### 9.2 Other information

No information available at present.

**SECTION 10: Stability and reactivity** 



(GB)

Page 10 of 19

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

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011

Valid from: 04.10.2023 PDF print date: 04.10.2023

Denso ND12

### 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.

Heating, open flame, ignition sources

## 10.5 Incompatible materials

See also section 7.

Avoid contact with strong alkalis.

Avoid contact with strong oxidizing agents.

## 10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

Denso ND12						
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-ethaned	diyl)], .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

hexadec-1-ene							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)		



Page 11 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011 Valid from: 04.10.2023

PDF print date: 04.10.2023

Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Analogous conclusion
Skin corrosion/irritation:					micaio i i con constitu	Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant, Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact), Analogous conclusion
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	1000	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Analogous conclusion
Aspiration hazard:						Yes

Decyloxirane						
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

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)		



Page 12 of 19

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

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011

Valid from: 04.10.2023 PDF print date: 04.10.2023

Denso ND12

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

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

## 11.2. Information on other hazards

Denso ND12										
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes				
Endocrine disrupting						Does not apply				
properties:						to mixtures.				
Other information:						No other				
						relevant				
						information				
						available on				
						adverse effects				
						on health.				

## **SECTION 12: Ecological information**

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

Denso ND12										
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 degradability:							n.d.a.			



Page 13 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011 Valid from: 04.10.2023

PDF print date: 04.10.2023

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. Endocrine	Does not apply
disrupting properties:	to mixtures.
12.7. Other adverse	No information
effects:	available on
	other adverse
	effects on the
	environment.

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				

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LL50	96h	>1000	mg/l	Oncorhynchus	OECD 203	
					mykiss	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EL50	48h	>1000	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
				,,	<u> </u>	Test)	
12.1. Toxicity to algae:	EL50	72h	>1000	mg/l	Pseudokirchnerie	OECD 201	
					lla subcapitata	(Alga, Growth	
10.0.5		00.1	<b>_</b>	0.4		Inhibition Test)	5 "
12.2. Persistence and		28d	71	%		OECD 301 D	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Closed Bottle	
10.0 Discourse detice	Las Daw		0.00			Test)	1
12.3. Bioaccumulative potential:	Log Pow		8,06				Low
12.3. Bioaccumulative potential:	BCF		4,37				
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
a.a vb accocomon							vPvB substance

Decyloxirane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
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)	



Page 14 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011 Valid from: 04.10.2023

PDF print date: 04.10.2023

12.2. Persistence and degradability:		28d	60-70	%	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	
12.3. Bioaccumulative potential:	Log Pow		5,9			
12.5. Results of PBT and vPvB assessment						No PBT substance, No vPvB substance

Dodecyloxirane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
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)	
12.2. Persistence and			60-70	%		OECD 301 B	
degradability:						(Ready	
						Biodegradability -	
						Co2 Evolution	
						Test)	
12.3. Bioaccumulative potential:	Log Pow		5,77				
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance

2,6-di-tert-butyl-p-cres							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	42d	0,053	mg/l	Oryzias latipes	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	>0.57	mg/l	Brachydanio rerio	84/449/EEC C.1	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,023	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,45	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	>0,4	mg/l	Desmodesmus subspicatus	84/449/EEC C.3	
12.1. Toxicity to algae:	EC50	72h	0,5	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,4	mg/l	Desmodesmus subspicatus	84/449/EEC C.3	
12.2. Persistence and degradability:		28d	4,5	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		5,1				High



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Page 15 of 19

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

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011

Valid from: 04.10.2023 PDF print date: 04.10.2023

Denso ND12

12.3. Bioaccumulative potential:	BCF		330- 1800		Cyprinus caprio	OECD 305 (Bioconcentration - Flow-Through Fish Test)	
12.3. Bioaccumulative potential:			230- 2500		Cyprinus carpio	OECD 305 (Bioconcentration - Flow-Through Fish Test)	56d
12.4. Mobility in soil:	Log Koc		3,9-4,2			,	
12.4. Mobility in soil:	Koc		14750				
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	>10000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:	Koc		14750				
Other information:	Log Koc		3,9-4,2				
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			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.

## **SECTION 14: Transport information**

#### **General statements**



Page 16 of 19

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

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011

Valid from: 04.10.2023 PDF print date: 04.10.2023

Denso ND12

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

14.1. UN number or ID number: 3082

14.2. UN proper shipping name:

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

DODECYLOXIRANE)

14.3. Transport hazard class(es): 9 Ш 14.4. Packing group:

14.5. Environmental hazards: environmentally hazardous

Tunnel restriction code: Classification code: M6 LQ: 5 L Transport category: 3

Transport by sea (IMDG-code)

14.1. UN number or ID number: 3082

14.2. UN proper shipping name:

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

DODECYLOXIRANE)

14.3. Transport hazard class(es): 9 Ш 14.4. Packing group:

14.5. Environmental hazards: environmentally hazardous

Marine Pollutant:

EmS: F-A, S-F

Transport by air (IATA)

14.1. UN number or ID number: 3082

14.2. UN proper shipping name:

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (DECYLOXIRANE, DODECYLOXIRANE)

14.3. Transport hazard class(es): 14.4. Packing group:

14.5. Environmental hazards: environmentally hazardous

#### 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

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

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

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

## **SECTION 15: Regulatory information**

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive

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.):

dangerous substances as
for referred to in Article 3(10) for
tier the application of - Upper-tier
requirements
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









Page 17 of 19

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

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011

Valid from: 04.10.2023 PDF print date: 04.10.2023

Denso ND12

account when assigning categories and qualifying quantities.

Observe incident regulations.

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

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

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

Revised sections: 2, 3, 8, 9, 10, 11, 12

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.

H361f Suspected of damaging fertility if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Skin Sens. — Skin sensitization

Aquatic Acute — Hazardous to the aquatic environment - acute

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Asp. Tox. — Aspiration hazard

Skin Irrit. — Skin irritation

Repr. — Reproductive toxicity

#### Key literature references and sources for data:

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

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

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

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

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

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

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

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

## Any abbreviations and acronyms used in this document:



Page 18 of 19

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

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011

Valid from: 04.10.2023 PDF print date: 04.10.2023

Denso ND12

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

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

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 NIOSHNational Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development



(GB)

Page 19 of 19

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

Revision date / version: 04.10.2023 / 0012

Replacing version dated / version: 01.11.2021 / 0011

Valid from: 04.10.2023 PDF print date: 04.10.2023

Denso ND12

org. organic

OSHA Occupational Safety and Health Administration (USA)

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)

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

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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