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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 02.11.2015 / 0004  
Replacing version dated / version: 06.05.2015 / 0003  
Valid from: 02.11.2015  
PDF print date: 02.11.2015  
OEST\_Gleitoel\_CG 68

## 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

**OEST\_Gleitoel\_CG 68**

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

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

Hydraulic oil  
Lubricating oil

##### Uses advised against:

No information available at present.

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

GB

elumatec AG, Pinacher Straße 61, 75417 Mühlacker, Germany  
Phone: +49 (0) 7041 / 14 - 0, Fax: +49 (0) 7041 / 14 - 280  
www.elumatec.de

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:

GB

Emergency poisoning centre D-79106 Freiburg Tel.: +49 761 19240 (24 hour)

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

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

#### 2.2 Label elements

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

EUH210-Safety data sheet available on request.

#### 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.

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

### SECTION 3: Composition/information on ingredients

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### 3.1 Substance

n.a.

### 3.2 Mixture

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

|  |  |
|--|--|
| <b>Phosphoric acid ester, amine salt</b>                           |  |
| <b>Registration number (REACH)</b>                                 | --   |
| <b>Index</b>   | ---  |
| <b>EINECS, ELINCS, NLP</b>   | -  |
| <b>CAS</b>   | ---  |
| <b>content %</b>   | 0,1-1  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b> | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Aquatic Chronic 2, H411 |

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 3.1/3.2 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

#### Inhalation

Remove person from danger area.

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

#### Skin contact

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

#### Eye contact

Remove contact lenses.

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

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

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

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

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

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

n.c.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

CO2

Sand

Extinction powder

## Unsuitable extinguishing media

Water

## 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

Ensure sufficient supply of air.

Avoid formation of oil mist.

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 from entering drainage system.

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

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

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

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

### 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

Avoid formation of oil mist.

Ensure good ventilation.

Avoid contact with eyes.

Avoid long lasting or intensive contact with skin.

Do not carry cleaning cloths soaked in product in trouser pockets.

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

Observe directions on label and instructions for use.

#### 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

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Store at room temperature.

### 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| Chemical Name              | 2,6-Di-t-butyl-4-methyl-phenol |                        | Content %:0,1-1 |
|----------------------------|--------------------------------|------------------------|-----------------|
| WEL-TWA: 10 mg/m3          | WEL-STEL: ---                  | ---                    |                 |
| Monitoring procedures: --- |                                |                        |                 |
| BMGV: ---                  |                                | Other information: --- |                 |

  

| Chemical Name   | Oil mist, mineral          |                        | Content %: |
|---|----------------------------|------------------------|------------|
| WEL-TWA: 5 mg/m3 (ACGIH)  | WEL-STEL: 10 mg/m3 (ACGIH) | ---                    |            |
| Monitoring procedures: <ul style="list-style-type: none"> <li>- Draeger - Oil 10/a-P (67 28 371)</li> <li>- Draeger - Oil Mist 1/a (67 33 031)</li> </ul> |                            |                        |            |
| BMGV: ---   |                            | Other information: --- |            |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | 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.

| 2,6-Di-t-butyl-4-methyl-phenol |  |                             |            |       |              |      |
|--------------------------------|--|-----------------------------|------------|-------|--------------|------|
| Area of application            | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit         | Note |
| Workers / employees            | Human - inhalation                         | Long term, systemic effects | DNEL       | 5,8   | mg/m3        |      |
| Consumer                       | Human - inhalation                         | Long term, systemic effects | DNEL       | 1,74  | mg/m3        |      |
| Workers / employees            | Human - dermal                             | Long term, systemic effects | DNEL       | 8,3   | mg/kg bw/day |      |
| Consumer                       | Human - dermal                             | Long term, systemic effects | DNEL       | 5     | mg/kg bw/d   |      |
|                                | Environment - soil                         |                             | PNEC       | 1,04  | mg/kg wwt    |      |
|                                | Environment - sewage treatment plant       |                             | PNEC       | 100   | mg/l         |      |
|                                | Environment - sediment                     |                             | PNEC       | 1,29  | mg/kg wwt    |      |
|                                | Environment - marine                       |                             | PNEC       | 0,4   | µg/l         |      |
|                                | Environment - periodic release             |                             | PNEC       | 4     | µg/l         |      |
|                                | Environment - freshwater                   |                             | PNEC       | 4     | µg/l         |      |
|                                | Environment - oral (animal feed)           |                             | PNEC       | 16,7  | mg/kg        |      |
|                                | Environment - soil                         |                             | PNEC       | 1,23  | mg/kg        |      |

### 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.

#### 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.

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Eye/face protection:  
Tight fitting protective goggles (EN 166) with side protection, with danger of projections.

Skin protection - Hand protection:  
Protective gloves, oil resistant (EN 374)  
Recommended

Protective nitrile gloves (EN 374)  
With short-term contact:  
Minimum layer thickness in mm:  
0,12  
Permeation time (penetration time) in minutes:  
10 - 30

With long-term contact:  
Minimum layer thickness in mm:  
0,425  
Permeation time (penetration time) in minutes:  
240 - 480

Protective hand cream recommended.  
The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.  
The recommended maximum wearing time is 50% of breakthrough time.

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

Respiratory protection:  
Normally not necessary.  
With oil mist formation:  
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:                                  | Yellow                                  |
| Odour:                                   | Characteristic                          |
| Odour threshold:                         | Not determined                          |
| pH-value:                                | Not determined                          |
| Melting point/freezing point:            | -21 (ISO 3016, Setting point )          |
| Initial boiling point and boiling range: | Not determined                          |
| Flash point:                             | 230 °C (ISO 2592 (Cleveland, open cup)) |
| Evaporation rate:                        | Not determined                          |
| Flammability (solid, gas):               | n.a.                                    |
| Lower explosive limit:                   | Not determined                          |
| Upper explosive limit:                   | Not determined                          |

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|  |  |
|--|--|
| Vapour pressure:                         | Not determined   |
| Vapour density (air = 1):                | Not determined   |
| Density:                                 | 0,875 g/cm <sup>3</sup> (15°C, DIN 51757)                |
| Bulk density:                            | Not determined   |
| Solubility(ies):                         | Not determined   |
| Water solubility:                        | Not miscible   |
| Partition coefficient (n-octanol/water): | Not determined   |
| Auto-ignition temperature:               | Not determined   |
| Decomposition temperature:               | Not determined   |
| Viscosity:                               | 68 mm <sup>2</sup> /s (DIN 51562 (Ubbelohde viscometer)) |
| 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

### 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.

Strong heat

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

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|   |  |  |  |  |  |        |
|---|--|--|--|--|--|--------|
| Specific target organ toxicity - repeated exposure (STOT-RE): |  |  |  |  |  | n.d.a. |
| Aspiration hazard:  |  |  |  |  |  | n.d.a. |
| Symptoms:   |  |  |  |  |  | n.d.a. |

| 2,6-Di-t-butyl-4-methyl-phenol                                |          |       |       |             |                                  |                            |
|---|----------|-------|-------|-------------|----------------------------------|----------------------------|
| Toxicity / effect   | Endpoint | Value | Unit  | Organism    | Test method                      | Notes                      |
| Acute toxicity, by oral route:                                | LD50     | >5000 | mg/kg | Rat         | OECD 401 (Acute Oral Toxicity)   |                            |
| Acute toxicity, by dermal route:                              | LD50     | >5000 | mg/kg | Rabbit      | OECD 402 (Acute Dermal Toxicity) |                            |
| Skin corrosion/irritation:                                    |          |       |       |             |                                  | Slightly irritant          |
| Serious eye damage/irritation:                                |          |       |       | Rabbit      | (Draize-Test)                    | Slightly irritant          |
| Respiratory or skin sensitisation:                            |          |       |       | Human being |                                  | Not sensitising            |
| Germ cell mutagenicity:                                       |          |       |       |             | (Ames-Test)                      | Negative                   |
| Germ cell mutagenicity:                                       |          |       |       | Mammalian   |                                  | Negative                   |
| Reproductive toxicity:  | NOAEL    | 100   | mg/kg | Rat         |                                  |                            |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOEL     | 25    | mg/kg | Rat         |                                  | (28d)                      |
| Symptoms:   |          |       |       |             |                                  | mucous membrane irritation |

## SECTION 12: Ecological information

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

| OEST_Gleitoel_CG 68                |          |      |       |      |          |             |        |
|------------------------------------|----------|------|-------|------|----------|-------------|--------|
| Toxicity / effect                  | Endpoint | Time | Value | Unit | Organism | Test method | Notes  |
| Toxicity to fish:                  |          |      |       |      |          |             | n.d.a. |
| Toxicity to daphnia:               |          |      |       |      |          |             | n.d.a. |
| Toxicity to algae:                 |          |      |       |      |          |             | n.d.a. |
| Persistence and degradability:     |          |      |       |      |          |             | n.d.a. |
| Bioaccumulative potential:         |          |      |       |      |          |             | n.d.a. |
| Mobility in soil:                  |          |      |       |      |          |             | n.d.a. |
| Results of PBT and vPvB assessment |          |      |       |      |          |             | n.d.a. |
| Other adverse effects:             |          |      |       |      |          |             | n.d.a. |

| 2,6-Di-t-butyl-4-methyl-phenol |          |      |            |      |                   |  |       |
|--------------------------------|----------|------|------------|------|-------------------|--|-------|
| Toxicity / effect              | Endpoint | Time | Value      | Unit | Organism          | Test method  | Notes |
| Toxicity to fish:              | LC0      | 96h  | >=0,5<br>7 | mg/l | Brachydanio rerio | Regulation (EC) 440/2008 C.1 (ACUTE TOXICITY FOR FISH) |       |
| Toxicity to fish:              | LC50     | 96h  | >=0,5<br>7 | mg/l | Brachydanio rerio |  |       |
| Toxicity to daphnia:           | EC50     | 48h  | 0,61       | mg/l | Daphnia magna     | OECD 202 (Daphnia sp. Acute Immobilisation Test)       |       |

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|                                    |           |     |          |      |                         |  |   |
|------------------------------------|-----------|-----|----------|------|-------------------------|--|---|
| Toxicity to daphnia:               | NOEC/NOEL | 21d | 0,316    | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)             |   |
| Toxicity to algae:                 | EC50      | 72h | >0,42    | mg/l | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                      |   |
| Toxicity to algae:                 | IC50      | 72h | >0,4     | mg/l | Desmodesmus subspicatus | 84/449/EEC C.3   |   |
| Persistence and degradability:     |           | 28d | 4,5      | %    |                         | OECD 301 C (Ready Biodegradability - Modified MITI Test (I)) |   |
| Persistence and degradability:     |           | 28d | 4,5      | %    |                         | OECD 301 C (Ready Biodegradability - Modified MITI Test (I)) | Not readily biodegradable   |
| Bioaccumulative potential:         |           |     | 230-2500 |      | Cyprinus caprio         | OECD 305 (Bioconcentration - Flow-Through Fish Test)         | 56d   |
| Bioaccumulative potential:         | Log Pow   |     | 5,1      |      |                         |  |   |
| Results of PBT and vPvB assessment |           |     |          |      |                         |  | No PBT substance  |
| Toxicity to bacteria:              | EC50      | 3h  | >10000   | mg/l | activated sludge        |  |   |
| Other information:                 |           |     |          |      |                         |  | Does not contain any organically bound halogens which can contribute to the AOX value in waste water. |
| Water solubility:                  |           |     | 0,00076  | g/l  |                         |  |   |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of. 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 05 mineral-based non-chlorinated engine, gear and lubricating oils

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

#### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Untampered packaging can be recycled.

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



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## SECTION 14: Transport information

### General statements

UN number: n.a.

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

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Classification code: n.a.

LQ (ADR 2015): n.a.

Environmental hazards: Not applicable

Tunnel restriction code:

### Transport by sea (IMDG-code)

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Marine Pollutant: n.a.

Environmental hazards: Not applicable

### Transport by air (IATA)

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Environmental hazards: Not applicable

### Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

## SECTION 15: Regulatory information

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

National rules/regulation for the compliance with maximum quantities with regard to phosphates and or phosphorous compounds must be observed and complied with.

For classification and labelling see Section 2.

Observe restrictions:

General hygiene measures for the handling of chemicals are applicable.

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: 1-16

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

Not applicable

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.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

Aquatic Acute — Hazardous to the aquatic environment - acute

Aquatic Chronic — Hazardous to the aquatic environment - chronic

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Eye Irrit. — Eye irritation  
Skin Irrit. — Skin irritation

## Any abbreviations and acronyms used in this document:

AC Article Categories  
acc., acc. to according, according to  
ACGIH American Conference of Governmental Industrial Hygienists  
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
AOEL Acceptable Operator Exposure Level  
AOX Adsorbable organic halogen compounds  
approx. approximately  
Art., Art. no. Article number  
ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)  
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  
BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)  
BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)  
BMGV Biological monitoring guidance value (EH40, UK)  
BOD Biochemical oxygen demand  
BSEF Bromine Science and Environmental Forum  
bw body weight  
CAS Chemical Abstracts Service  
CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids  
CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques  
CIPAC Collaborative International Pesticides Analytical Council  
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
CMR carcinogenic, mutagenic, reproductive toxic  
COD Chemical oxygen demand  
CTFA Cosmetic, Toiletry, and Fragrance Association  
DMEL Derived Minimum Effect Level  
DNEL Derived No Effect Level  
DOC Dissolved organic carbon  
DT50 Dwell Time - 50% reduction of start concentration  
DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)  
dw dry weight  
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
EC European Community  
ECHA European Chemicals Agency  
EEA European Economic Area  
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)  
ERC Environmental Release Categories  
ES Exposure scenario  
etc. et cetera  
EU European Union  
EWC European Waste Catalogue  
Fax. Fax number  
gen. general  
GHS Globally Harmonized System of Classification and Labelling of Chemicals  
GWP Global warming potential  
HET-CAM Hen's Egg Test - Chorionallantoic Membrane  
HGWP Halocarbon Global Warming Potential  
IARC International Agency for Research on Cancer

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IATA International Air Transport Association  
IBC Intermediate Bulk Container  
IBC (Code) International Bulk Chemical (Code)  
IC Inhibitory concentration  
IMDG-code International Maritime Code for Dangerous Goods  
incl. including, inclusive  
IUCLID International Uniform Chemical Information Database  
LC lethal concentration  
LC50 lethal concentration 50 percent kill  
LCLo lowest published lethal concentration  
LD Lethal Dose of a chemical  
LD50 Lethal Dose, 50% kill  
LDLo Lethal Dose Low  
LOAEL Lowest Observed Adverse Effect Level  
LOEC Lowest Observed Effect Concentration  
LOEL Lowest Observed Effect Level  
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  
NIOSH National Institute of Occupational Safety and Health (United States of America)  
NOAEC No Observed Adverse Effective Concentration  
NOAEL No Observed Adverse Effect Level  
NOEC No Observed Effect Concentration  
NOEL No Observed Effect Level  
ODP Ozone Depletion Potential  
OECD Organisation for Economic Co-operation and Development  
org. organic  
PAH polycyclic aromatic hydrocarbon  
PBT persistent, bioaccumulative and toxic  
PC Chemical product category  
PE Polyethylene  
PNEC Predicted No Effect Concentration  
POCP Photochemical ozone creation potential  
ppm parts per million  
PROC Process category  
PTFE Polytetrafluorethylene  
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)  
SADT Self-Accelerating Decomposition Temperature  
SAR Structure Activity Relationship  
SU Sector of use  
SVHC Substances of Very High Concern  
Tel. Telephone  
ThOD Theoretical oxygen demand  
TOC Total organic carbon  
TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)  
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))  
VOC Volatile organic compounds  
vPvB very persistent and very bioaccumulative  
WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).  
WHO World Health Organization

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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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