

## 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

### Nanoprotech Super Anticorrosion (Aerosol)

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

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

Protection against moisture.

##### Uses advised against:

No information available at present.

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

GB

Nanoprotech OÜ, Uus-Sadama 21, 10120 Tallinn,  
 Estonia Phone: +372 6816270, Fax: +372 6816271  
 info@nanoprotech.com

E-mail address of the competent person: info@nanoprotech.com

#### 1.4 Emergency telephone

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

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

+37 26816270 (08:00 - 17:00 h)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

| Hazard class    | Hazard category | Hazard statement  |
|-----------------|-----------------|---|
| Aquatic Chronic | 3               | H412-Harmful to aquatic life with long lasting effects. |
| Aerosol         | 1               | H222-Extremely flammable aerosol.                       |
| Aerosol         | 1               | H229-Pressurised container: May burst if heated.        |

##### 2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

F+,Extremely flammable

Dangerous for the environment, R52/53

#### 2.2 Label elements

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



Danger

H412-Harmful to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

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P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use.  
 P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Without adequate ventilation, formation of explosive mixtures may be possible.

### 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

Aerosol

### 3.1 Substance

n.a.

### 3.2 Mixture

| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics         |   |
|---|---|
| Registration number (REACH)                                 | 01-2119473851-33-XXXX   |
| Index   | ---   |
| EINECS, ELINCS, NLP   | 920-750-0 (REACH-IT List-No.)   |
| CAS   | CAS ---   |
| content %   | 2,5-<15   |
| Classification according to Directive 67/548/EEC            | Highly flammable, F, R11<br>Dangerous for the environment, N, R51<br>Dangerous for the environment, R53<br>Harmful, Xn, R65<br>R66<br>R67 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 2, H225<br>Asp. Tox. 1, H304<br>STOT SE 3, H336<br>Aquatic Chronic 2, H411   |

| Hydrocarbons, C10, aromatics, <1% naphthalene               |   |
|---|---|
| Registration number (REACH)                                 | 01-2119463583-34-XXXX   |
| Index   | ---   |
| EINECS, ELINCS, NLP   | 918-811-1 (REACH-IT List-No.)   |
| CAS   | (64742-94-5)  |
| content %   | 1-5   |
| Classification according to Directive 67/548/EEC            | Dangerous for the environment, N, R51<br>Dangerous for the environment, R53<br>Harmful, Xn, R65<br>R66<br>R67 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Asp. Tox. 1, H304<br>STOT SE 3, H336<br>Aquatic Chronic 2, H411   |

| 2,6-Di-t-butyl-4-methyl-phenol                              |   |
|---|---|
| Registration number (REACH)                                 | 01-2119555270-46-XXXX   |
| Index   | ---   |
| EINECS, ELINCS, NLP   | 204-881-4   |
| CAS   | CAS 128-37-0  |
| content %   | 0,1-<1  |
| Classification according to Directive 67/548/EEC            | Dangerous for the environment, N, R50<br>Dangerous for the environment, R53 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)                |

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.  
 The substances named in this section are given with their actual, appropriate classification!

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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.  
If the person is unconscious, place in a stable side position and consult a doctor.

#### 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

Typically no exposure pathway.  
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.  
The following may occur:

Irritation of the eyes  
Irritation of the respiratory tract  
Coughing  
Headaches  
Dizziness  
With long-term contact:  
Drying of the skin.  
Dermatitis (skin inflammation)  
Ingestion:  
Nausea  
gastrointestinal disturbances

### 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  
Extinction powder  
Water jet spray  
Alcohol resistant foam

#### 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 sulphur  
Toxic gases

Danger of bursting (explosion) when heated  
Explosive vapour/air mixture

### 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.

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## SECTION 6: Accidental release measures

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

Remove possible causes of ignition - do not smoke.  
 Ensure sufficient supply of air.  
 Avoid inhalation, and contact with eyes or skin.  
 If applicable, caution - risk of slipping

### 6.2 Environmental precautions

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.  
 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

If spray or gas escapes, ensure ample fresh air is available.  
 Without adequate ventilation, formation of explosive mixtures may be possible.

Active substance:

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) 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

Ensure good ventilation.  
 Avoid inhalation of the vapours.  
 Avoid contact with eyes or skin.  
 Keep away from sources of ignition - Do not smoke.  
 Take measures against electrostatic charging, if appropriate.  
 Do not use on hot surfaces.  
 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.  
 Not to be stored in gangways or stair wells.  
 Store product closed and only in original packing.  
 Observe special regulations for aerosols!  
 Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").  
 Keep protected from direct sunlight and temperatures over 50°C.  
 Store in a well ventilated place.  
 Store cool

### 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):  
 800 mg/m<sup>3</sup>

| Chemical Name                   | Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics | Content %:2,5-<br><15 |
|---------------------------------|---|-----------------------|
| WEL-TWA: 1200 mg/m <sup>3</sup> | WEL-STEL: ---                                       | ---                   |
| BMGV: ---                       | Other information: ---                              |                       |

|                                |   |               |
|--------------------------------|---|---------------|
| <b>Chemical Name</b>           | Hydrocarbons, C10, aromatics, <1% naphthalene | Content %:1-5 |
| WEL-TWA: 500 mg/m3 (Aromatics) | WEL-STEL: ---                                 | ---           |
| BMGV: ---                      | Other information: ---                        |               |

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

|                           |                        |            |
|---------------------------|------------------------|------------|
| <b>Chemical Name</b>      | Propane                | Content %: |
| WEL-TWA: 1000 ppm (ACGIH) | WEL-STEL: ---          | ---        |
| BMGV: ---                 | Other information: --- |            |

|                               |                                |            |
|-------------------------------|--------------------------------|------------|
| <b>Chemical Name</b>          | Butane                         | Content %: |
| WEL-TWA: 600 ppm (1450 mg/m3) | WEL-STEL: 750 ppm (1810 mg/m3) | ---        |
| BMGV: ---                     | Other information: ---         |            |

|                          |                            |            |
|--------------------------|----------------------------|------------|
| <b>Chemical Name</b>     | Oil mist, mineral          | Content %: |
| WEL-TWA: 5 mg/m3 (ACGIH) | WEL-STEL: 10 mg/m3 (ACGIH) | ---        |
| 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        |      |

| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics |  |                             |            |       |            |      |
|---|--|-----------------------------|------------|-------|------------|------|
| Area of application                                 | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit       | Note |
| Workers / employees                                 | Human - dermal                             | Long term, systemic effects | DNEL       | 773   | mg/kg bw/d |      |
| Workers / employees                                 | Human - inhalation                         | Long term, systemic effects | DNEL       | 2035  | mg/m3      |      |
| Consumer  | Human - dermal                             | Long term, systemic effects | DNEL       | 699   | mg/kg bw/d |      |
| Consumer  | Human - inhalation                         | Long term, systemic effects | DNEL       | 608   | mg/m3      |      |
|   | Human - oral                               | Long term, systemic effects | DNEL       | 699   | mg/kg bw/d |      |

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| <b>Hydrocarbons, C10, aromatics, &lt;1% naphthalene</b> |   |                         |                   |              |              |             |
|---|---|-------------------------|-------------------|--------------|--------------|-------------|
| <b>Area of application</b>                              | <b>Exposure route / Environmental compartment</b> | <b>Effect on health</b> | <b>Descriptor</b> | <b>Value</b> | <b>Unit</b>  | <b>Note</b> |
| Workers / employees                                     | Human - dermal                                    | Long term               | DNEL              | 12,5         | mg/kg bw/day |             |
| Workers / employees                                     | Human - inhalation                                | Long term               | DNEL              | 151          | mg/m3        |             |
| Consumer  | Human - dermal                                    | Long term               | DNEL              | 7,5          | mg/kg bw/day |             |
| Consumer  | Human - inhalation                                | Long term               | DNEL              | 32           | mg/m3        |             |
| Consumer  | Human - oral                                      | Long term               | DNEL              | 7,5          | mg/kg bw/day |             |

## 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.

Eye/face protection:  
 With danger of contact with eyes.  
 Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:  
 Chemical resistant protective gloves (EN 374).  
 If applicable  
 Protective nitrile gloves (EN 374)  
 Minimum layer thickness in mm:  
 0,35  
 Protective Viton® / fluoroelastomer gloves (EN 374)  
 Minimum layer thickness in mm:  
 0,4  
 Permeation time (penetration time) in minutes:  
 > 480  
 Protective hand cream recommended.

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

Respiratory protection:  
 If OES or MEL is exceeded.  
 Filter A2 P2 (EN 14387), code colour brown, white  
 At high concentrations:  
 Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)  
 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

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No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state:                          | Aerosol, Substance: Liquid  |
| Colour:                                  | Light brown, Turbid   |
| Odour:                                   | Mineral oil   |
| Odour threshold:                         | Not determined  |
| pH-value:                                | n.a.  |
| Melting point/freezing point:            | Not determined  |
| Initial boiling point and boiling range: | Not determined  |
| Flash point:                             | Not determined  |
| Evaporation rate:                        | Not determined  |
| Flammability (solid, gas):               | Not determined  |
| Lower explosive limit:                   | Not determined  |
| Upper explosive limit:                   | Not determined  |
| Vapour pressure:                         | Not determined  |
| Vapour density (air = 1):                | Not determined  |
| Density:                                 | 0,84 g/cm <sup>3</sup> (Active substance )  |
| Bulk density:                            | Not determined  |
| Solubility(ies):                         | Not determined  |
| Water solubility:                        | Insoluble   |
| Partition coefficient (n-octanol/water): | Not determined  |
| Auto-ignition temperature:               | Not determined  |
| Decomposition temperature:               | Not determined  |
| Viscosity:                               | 40-45 mm <sup>2</sup> /s (40°C, Active substance )  |
| Explosive properties:                    | Product is not explosive. When using: development of explosive vapour/air mixture possible. |
| 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.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

### 10.5 Incompatible materials

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

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

### Nanoprotech Anticorrosion (Aerosol)

| Toxicity/effect                | Endpoint | Value | Unit | Organism | Test method | Notes  |
|--------------------------------|----------|-------|------|----------|-------------|--------|
| Acute toxicity, by oral route: |          |       |      |          |             | n.d.a. |

|   |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Acute toxicity, by dermal route:                              |  |  |  |  |  | n.d.a.   |
| Acute toxicity, by inhalation:                                |  |  |  |  |  | n.d.a.   |
| Skin corrosion/irritation:                                    |  |  |  |  |  | n.d.a.   |
| Serious eye damage/irritation:                                |  |  |  |  |  | n.d.a.   |
| Respiratory or skin sensitisation:                            |  |  |  |  |  | n.d.a.   |
| Germ cell mutagenicity:                                       |  |  |  |  |  | n.d.a.   |
| Carcinogenicity:  |  |  |  |  |  | n.d.a.   |
| Reproductive toxicity:  |  |  |  |  |  | n.d.a.   |
| Specific target organ toxicity - single exposure (STOT-SE):   |  |  |  |  |  | n.d.a.   |
| Specific target organ toxicity - repeated exposure (STOT-RE): |  |  |  |  |  | n.d.a.   |
| Aspiration hazard:  |  |  |  |  |  | n.d.a.   |
| Symptoms:   |  |  |  |  |  | n.d.a.   |
| Other information:  |  |  |  |  |  | Classification according to calculation procedure. |

**Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics**

| 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     | >2800 | mg/kg   | Rabbit     | OECD 402 (Acute Dermal Toxicity)                         |  |
| Acute toxicity, by inhalation:     | LC50     | >23,3 | mg/l/4h | Rat        | OECD 403 (Acute Inhalation Toxicity)                     |  |
| Skin corrosion/irritation:         |          |       |         | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)             | Not irritant   |
| Serious eye damage/irritation:     |          |       |         | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)                | Not irritant   |
| Respiratory or skin sensitisation: |          |       |         | Guinea pig | OECD 406 (Skin Sensitisation)                            | Not sensitising  |
| Germ cell mutagenicity:            |          |       |         |            | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative   |
| Germ cell mutagenicity:            |          | 2000  | mg/kg   | Mouse      | OECD 474 (Mammalian Erythrocyte Micronucleus Test)       | Negative   |
| Reproductive toxicity:             | LOAEL    | 9000  | ppm     | Rat        | OECD 416 (Two-generation Reproduction Toxicity Study)    | Negative   |
| Aspiration hazard:                 |          |       |         |            |  | Yes  |
| Symptoms:                          |          |       |         |            |  | drowsiness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |

**Hydrocarbons, C10, aromatics, <1% naphthalene**

| 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 | >2000 | mg/kg   | Rabbit     | OECD 402 (Acute Dermal Toxicity)  |   |
| Acute toxicity, by inhalation:                                | LC50 | >4688 | mg/m3   | Rat        | OECD 403 (Acute Inhalation Toxicity)  |   |
| Acute toxicity, by inhalation:                                | LC50 | >5    | mg/l/4h | Rat        |   |   |
| Skin corrosion/irritation:                                    |      |       |         |            |   | Repeated exposure may cause skin dryness or cracking. |
| Skin corrosion/irritation:                                    |      |       |         | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)  | Not irritant  |
| Serious eye damage/irritation:                                |      |       |         | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)   | Not irritant  |
| Respiratory or skin sensitisation:                            |      |       |         | Guinea pig | OECD 406 (Skin Sensitisation)   | Not sensitizing                                       |
| Germ cell mutagenicity:                                       |      |       |         |            | OECD 479 (Genetic Toxicology - In Vitro Sister Chromatid Exchange assay in Mammalian Cells) | Negative  |
| Reproductive toxicity:  |      |       |         |            | OECD 414 (Prenatal Developmental Toxicity Study)  | Negative  |
| Specific target organ toxicity - repeated exposure (STOT-RE): |      |       |         |            | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)                              | Negative  |
| Aspiration hazard:  |      |       |         |            |   | Yes   |
| Symptoms:   |      |       |         |            |   | drowsiness, headaches, drowsiness, dizziness          |

**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 sensitizing            |
| 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 |

**Propane**

| Toxicity/effect         | Endpoint | Value | Unit | Organism | Test method                                | Notes  |
|-------------------------|----------|-------|------|----------|--|--|
| Germ cell mutagenicity: |          |       |      |          | OECD 471 (Bacterial Reverse Mutation Test) | Negative   |
| Symptoms:               |          |       |      |          |  | breathing difficulties, unconsciousness, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting. |

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| <b>Butane</b>                  |                 |              |             |                 |  |  |
|--------------------------------|-----------------|--------------|-------------|-----------------|--|--|
| <b>Toxicity/effect</b>         | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b>                         | <b>Notes</b>   |
| Acute toxicity, by inhalation: | LC50            | 658          | mg/l/4h     | Rat             |  |  |
| Germ cell mutagenicity:        |                 |              |             |                 | OECD 471 (Bacterial Reverse Mutation Test) | Negative   |
| Symptoms:                      |                 |              |             |                 |  | ataxia, breathing difficulties, drowsiness, unconsciousness, frostbite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness, nausea and vomiting. |

## SECTION 12: Ecological information

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

| <b>Nanoprotech Anticorrosion (Aerosol)</b> |                 |             |              |             |                 |                    |              |
|--|-----------------|-------------|--------------|-------------|-----------------|--------------------|--------------|
| <b>Toxicity/effect</b>                     | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b> | <b>Notes</b> |
| 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.       |

| <b>Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics</b> |                 |             |              |             |                                 |  |                                     |
|--|-----------------|-------------|--------------|-------------|---------------------------------|--|-------------------------------------|
| <b>Toxicity/effect</b>                                     | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>                 | <b>Test method</b>   | <b>Notes</b>                        |
| Toxicity to fish:  | LL50            | 96h         | 3 -10        | mg/l        | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)                               |                                     |
| Toxicity to daphnia:                                       | EL50            | 48h         | 4,6 - 10     | mg/l        | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                                     |
| Toxicity to daphnia:                                       | NOELR           | 21d         | 1 -1,6       | mg/l        | Daphnia magna                   | OECD 211 (Daphnia magna Reproduction Test)                         |                                     |
| Toxicity to algae:   | NOEC/NOEL       | 72h         | 10           | mg/l        | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                     |
| Toxicity to algae:   | EbL50           | 72h         | 10-30        |             | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                     |
| Persistence and degradability:                             |                 | 28d         | 98           | %           |                                 | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Completely biodegradable.           |
| Results of PBT and vPvB assessment                         |                 |             |              |             |                                 |  | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                                      | EL50            | 48h         | 11,14        | mg/l        |                                 |  | calculated value                    |
| Water solubility:  |                 |             | 2            | mg/l        |                                 |  | Insoluble                           |

| <b>Hydrocarbons, C10, aromatics, &lt;1% naphthalene</b> |                 |             |              |             |                                  |  |   |
|---|-----------------|-------------|--------------|-------------|----------------------------------|--|---|
| <b>Toxicity/effect</b>                                  | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>                  | <b>Test method</b>   | <b>Notes</b>                            |
| Toxicity to fish:                                       | LC50            | 96h         | 2 -5         | mg/l        |                                  |  |   |
| Toxicity to fish:                                       | LL50            | 96h         | 2 - 5        | mg/l        | Oncorhynchus mykiss              | OECD 203 (Fish, Acute Toxicity Test)                               |   |
| Toxicity to daphnia:                                    | EC50            | 48h         | 3 -10        | mg/l        |                                  |  |   |
| Toxicity to daphnia:                                    | EL50            | 48h         | 3 -10        | mg/l        | Daphnia magna                    | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |   |
| Toxicity to algae:                                      | EC50            | 72h         | 1 -3         | mg/l        |                                  |  |   |
| Toxicity to algae:                                      | EL50            | 72h         | 11           | mg/l        | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |   |
| Toxicity to algae:                                      | NOELR           | 72h         | 2,5          | mg/l        | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |   |
| Persistence and degradability:                          |                 | 28d         | 49,6         | %           |                                  | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Not readily but inherent biodegradable. |
| Water solubility:                                       |                 |             |              |             |                                  |  | Insoluble                               |

| <b>2,6-Di-t-butyl-4-methyl-phenol</b> |                 |             |              |             |                         |  |                           |
|---------------------------------------|-----------------|-------------|--------------|-------------|-------------------------|--|---------------------------|
| <b>Toxicity/effect</b>                | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>         | <b>Test method</b>   | <b>Notes</b>              |
| 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)             |                           |
| Toxicity to daphnia:                  | NOEC/NO EL      | 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                       |

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|                                    |         |    |             |      |                  |  |   |
|------------------------------------|---------|----|-------------|------|------------------|--|---|
| Bioaccumulative potential:         | Log Pow |    | 5,1         |      |                  |  |   |
| Results of PBT and vPvB assessment |         |    |             |      |                  |  | No PBT substance  |
| Toxicity to bacteria:              | EC50    | 3h | >1000<br>0  | 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:                  |         |    | 0,0007<br>6 | g/l  |                  |  |   |

| Propane                            |          |      |       |      |          |             |   |
|------------------------------------|----------|------|-------|------|----------|-------------|---|
| Toxicity/effect                    | Endpoint | Time | Value | Unit | Organism | Test method | Notes   |
| Bioaccumulative potential:         | Log Pow  |      | 2,28  |      |          |             | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| Results of PBT and vPvB assessment |          |      |       |      |          |             | No PBT substance, No vPvB substance   |

| Butane                             |          |      |       |      |          |             |   |
|------------------------------------|----------|------|-------|------|----------|-------------|---|
| Toxicity/effect                    | Endpoint | Time | Value | Unit | Organism | Test method | Notes   |
| Bioaccumulative potential:         | Log Pow  |      | 2,98  |      |          |             | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| Results of PBT and vPvB assessment |          |      |       |      |          |             | No PBT substance, No vPvB substance   |

## 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. (2001/118/EC, 2001/119/EC, 2001/573/EC)

11 01 98 other wastes containing dangerous substances

16 05 04 gases in pressure containers (including halons) containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

#### For contaminated packing material

Pay attention to local and national official regulations

Recommendation:

Do not perforate, cut up or weld uncleaned container.

Recycling

15 01 04 metallic packaging

## SECTION 14: Transport information

### General statements

UN number: 1950

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

UN proper shipping name:

UN 1950 AEROSOLS

Transport hazard class(es): 2.1

Packing group: -

Classification code: 5F

LQ (ADR 2015): 1 L



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LQ (ADR 2009): 2  
 Environmental hazards: Not applicable  
 Tunnel restriction code: D

### Transport by sea (IMDG-code)

UN proper shipping name: AEROSOLS  
 Transport hazard class(es): 2.1  
 Packing group: -  
 EmS: F-D, S-U  
 Marine Pollutant: n.a  
 Environmental hazards: Not applicable



### Transport by air (IATA)

UN proper shipping name: Aerosols, flammable  
 Transport hazard class(es): 2.1  
 Packing group: -  
 Environmental hazards: Not applicable



### 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.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.  
 Minimum amount regulations have not been taken into account.  
 Danger code and packing code on request.  
 Comply with special provisions.

## SECTION 15: Regulatory information

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

For classification and labelling see Section 2.  
 Observe restrictions:  
 Comply with trade association/occupational health regulations.  
 Observe youth employment law (German regulation).  
 Directive 2010/75/EU (VOC): ~ 69 %

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

These details refer to the product as it is delivered.  
 Revised sections: 1, 11, 12, 15

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

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used                             |
|---|--|
| Aquatic Chronic 3, H412   | Classification according to calculation procedure. |
| Aerosol 1, H222   | Classification based on test data.                 |
| Aerosol 1, H229   | Classification based on test data.                 |

The following phrases represent the posted R phrases / H phrases, Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

- 11 Highly flammable.
- 50 Very toxic to aquatic organisms.
- 51 Toxic to aquatic organisms.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 53 May cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 H336 May cause drowsiness or dizziness.  
 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 Chronic — Hazardous to the aquatic environment - chronic

Aerosol — Aerosols

Flam. Liq. — Flammable liquid

Asp. Tox. — Aspiration hazard

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Aquatic Acute — Hazardous to the aquatic environment - acute

### 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

EWG 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  
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).

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WHO World Health Organization

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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