

## X210002 FITO UNIVERSALE 1kg NPK 12-8-16

Version: 2.10  
Date of last issue: 20.07.2022

Revision Date:  
25.12.2022

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

#### 1.1 Product identifier

Trade name : X210002 FITO UNIVERSALE 1kg NPK 12-8-16

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

Use of the Sub-  
stance/Mixture : Fertilizer

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

Blumen Group S.p.a.  
Via Carlo Strinati 7/9 - Loc. Le Mose 29122  
Piacenza (PC)  
Italy

tel. +39 0523 573211  
mail: msds@blumen.it

#### 1.4 Emergency telephone number

GBK GmbH - Global Regulatory Compliance - 24h  
Telephone: +49 (0) 6132 - 84463

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Supplemental Hazard : EUH210 Safety data sheet available on request.  
Statements

Further information : German "Hazardous Substances" legislation ( Gefahrstoffverordnung) appendix I, No. 5 (Ammonium Nitrate group C III)

#### 2.3 Other hazards

None known.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Fertilizer  
Contains  
NPK - fertilizer containing: Ammonium Nitrate, ammonium salts, phosphates, potassium sulphate, magnesium sulphate, salts of calcium, potassium and possibly magnesium and trace elements.  
1H-Pyrazole, 3,4-dimethyl-,phosphate (1:1)

#### Hazardous components

| Chemical Name                             | CAS-No.<br>EC-No.<br>Registration number         | Classification                         | Concentration<br>(% w/w) |
|---|--|--|--------------------------|
| ammonium nitrate                          | 6484-52-2<br>229-347-8<br>01-2119490981-27-XXXX  | Ox. Sol. 3; H272<br>Eye Irrit. 2; H319 | >= 10 - < 45             |
| Borates, tetra sodium salts, pentahydrate | 12179-04-3<br>215-540-4<br>01-2119490790-32-XXXX | Repr. 1B; H360FD<br>Eye Irrit. 2; H319 | <= 0,2                   |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

If inhaled : Move to fresh air.  
Obtain medical attention.  
If unconscious place in recovery position and seek medical advice.  
In case of lung irritation, first treatment with dexametason aerosol (spray).

In case of skin contact : Wash off with soap and water.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

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

Symptoms : Ingestion may provoke the following symptoms:  
Methaemoglobinemia

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Risks : Later control for pneumonia and lung oedema.

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

Treatment : Treat symptomatically.  
There is no specific antidote available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water

Unsuitable extinguishing media : Foam  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Sand

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

Specific hazards during fire-fighting : At temperatures above 130 °C, dangerous decomposition gases can be emitted:  
Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

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

Personal precautions : Avoid dust formation.  
Ensure adequate ventilation.  
In case of insufficient ventilation, wear suitable respiratory equipment.

### 6.2 Environmental precautions

Environmental precautions : Do not empty into drains.  
Retain and dispose of contaminated wash water.

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

Methods for cleaning up : Use mechanical handling equipment.

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### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Protect from contamination.  
Keep away from direct sunlight.  
Protect against heat.  
Protect from moisture.
- Advice on protection against fire and explosion : The product is not flammable. Keep away from heat and sources of ignition. Keep away from combustible materials.
- Hygiene measures : At the end of the shift the skin should be cleaned and skin-care agents applied.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep away from heat. Keep away from sources of ignition - No smoking. Keep away from combustible material. Protect from contamination. When stored loose do not mix with other fertilizers. Protect against humidity (product is hygroscopic and tends to cake or disintegrate)
- Further information on storage conditions : Protect against water. Keep away from direct sunlight.
- Storage class (TRGS 510) : 5.1C, Ammonium nitrate and ammonium nitrate containing preparations

### 7.3 Specific end use(s)

- Specific use(s) : Always read the label and product information before use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                                | CAS-No.   | Value type (Form of exposure) | Control parameters  | Basis       |
|---|---|-------------------------------|---------------------|-------------|
| Borates, tetra sodium salts, pentahydrate | 12179-04-3  |                               | 3 mg/m <sup>3</sup> | DE TRGS 900 |
| Peak-limit: excursion factor (category)   | 8;(II)  |                               |                     |             |
| Further information                       | Commission for dangerous substances, The threshold value is based on the element content of the corresponding metal., When there is compliance with |                               |                     |             |

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|   |  |     |                                   |                |
|---|--|-----|-----------------------------------|----------------|
|   | the OEL and biological tolerance values, there is no risk of harming the un-born child   |     |                                   |                |
|   |  | AGW | 0,5 mg/m <sup>3</sup><br>(Borate) | DE TRGS<br>900 |
| Peak-limit: excursion factor (category) | 2;(I)  |     |                                   |                |
| Further information                     | Commission for dangerous substances, The threshold value is based on the element content of the corresponding metal., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the un-born child |     |                                   |                |
|   |  |     | 1 mg/m <sup>3</sup>               | ACGIHTLV       |
|   |  | TWA | 1 mg/m <sup>3</sup>               | GB EH40        |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name   | End Use                                   | Exposure routes         | Potential health effects                | Value                 |
|------------------|---|-------------------------|---|-----------------------|
| ammonium nitrate | Workers                                   | Inhalation              | Long-term systemic effects              | 36 mg/m <sup>3</sup>  |
|                  | Workers                                   | Skin contact            | Long-term systemic effects              | 5,12 mg/kg bw/day     |
|                  | Consumers                                 | Ingestion               | Long-term systemic effects              | 2,56 mg/kg bw/day     |
|                  | Consumers                                 | Inhalation              | Long-term systemic effects              | 8,9 mg/m <sup>3</sup> |
|                  | Consumers                                 | Skin contact, Ingestion | Long-term systemic effects              | 2,56 mg/kg bw/day     |
|                  | Borates, tetra sodium salts, pentahydrate | Workers                 | Inhalation                              | Long-term exposure    |
| Consumers        |   | Inhalation              | Long-term exposure                      | 3,4 mg/m <sup>3</sup> |
| Workers          |   | Skin contact            | Long-term exposure                      | 316,4 mg/kg bw/day    |
| Consumers        |   | Skin contact            | Long-term exposure                      | 159,5 mg/kg bw/day    |
| Consumers        |   | Ingestion               | Long-term exposure, Short-term exposure | 0,79 mg/kg bw/day     |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name                            | Environmental Compartment | Value    |
|---|---------------------------|----------|
| ammonium nitrate                          | Sewage treatment plant    | 18 mg/l  |
| Borates, tetra sodium salts, pentahydrate | Fresh water               | 2,9 mg/l |

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|  |                          |           |
|--|--------------------------|-----------|
|  | Marine water             | 2,9 mg/l  |
|  | Soil                     | 5,7 mg/kg |
|  | Intermittent use/release | 13,7 mg/l |
|  | Sewage treatment plant   | 10 mg/l   |

### 8.2 Exposure controls

#### Personal protective equipment

Respiratory protection : respiratory protection only if aerosol or dust is formed.  
Particle filter EN 143 Type P1, low efficiency, (solid particles of inert substances).

#### Environmental exposure controls

General advice : Do not empty into drains.  
Retain and dispose of contaminated wash water.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : granular

Colour : various

Odour : very faint

Odour Threshold : No data available

pH : ca. 5 - 5,5, Concentration: 100 g/l (20 °C)

Melting point/range : No data available

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : Not explosive

Lower explosion limit : Not explosive

Vapour pressure : Not applicable

Relative vapour density : Not applicable

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|  |   |
|--|---|
| Bulk density                           | : ca. 1.150 kg/m <sup>3</sup>   |
| Solubility(ies)                        |   |
| Water solubility                       | : soluble   |
| Partition coefficient: n-octanol/water | : Not applicable  |
| Decomposition temperature              | : > 130 °C<br>To avoid thermal decomposition, do not overheat.  |
| Viscosity                              |   |
| Viscosity, dynamic                     | : Not applicable  |
| Viscosity, kinematic                   | : Not applicable  |
| Explosive properties                   | : Not explosive   |
| Oxidizing properties                   | : Not considered an oxidizing substance   |
| <b>Particle characteristics</b>        |   |
| Particle Size Distribution             | : D50 = 3,2 mm<br>D50 Tolerance range = 2,8 mm - 3,6 mm<br>Measurement technique: Optoelectronic measurement method |

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Evolution of ammonia under influence of alkalies.

### 10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.  
Avoid moisture.

### 10.5 Incompatible materials

Materials to avoid : Sulphur, chlorites, chloride, chlorates, Hypochlorites, acid or

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alkaline reacting substances, flammable oxidizable substances, nitrites, metallic salts, metallic powder, herbicide, chlorinated hydrocarbons, organic compounds.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

##### Components:

##### **ammonium nitrate:**

Acute oral toxicity : LD50 (Rat): > 2.950 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : > 88,8 mg/l  
Method: No information available.

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 402

##### **Borates, tetra sodium salts, pentahydrate:**

Acute oral toxicity : LD50 (Rat): 3.200 - 3.400 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2,0 mg/l  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

#### Skin corrosion/irritation

##### Product:

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: non-irritant

##### Components:

##### **ammonium nitrate:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: non-irritant



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### **Borates, tetra sodium salts, pentahydrate:**

Species: Rabbit  
Result: No skin irritation

### **Serious eye damage/eye irritation**

#### **Product:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: non-irritant

#### **Components:**

##### **ammonium nitrate:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Irritant

##### **Borates, tetra sodium salts, pentahydrate:**

Species: Rabbit  
Assessment: Irritant  
Result: Moderate eye irritation

### **Respiratory or skin sensitisation**

#### **Product:**

Result: non-sensitizing

#### **Components:**

##### **ammonium nitrate:**

Result: Does not cause skin sensitisation.

##### **Borates, tetra sodium salts, pentahydrate:**

Test Type: Buehler Test  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitisation.

### **Germ cell mutagenicity**

#### **Product:**

Genotoxicity in vitro : Remarks: Contains no hazardous ingredients according to GHS

#### **Components:**

##### **ammonium nitrate:**

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Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: negative

### **Borates, tetra sodium salts, pentahydrate:**

Germ cell mutagenicity- Assessment : In vitro tests showed mutagenic effects

### **Carcinogenicity**

#### **Product:**

Remarks: Contains no ingredient listed as a carcinogen

#### **Components:**

##### **ammonium nitrate:**

Species: Rat

Remarks: Animal testing did not show any carcinogenic effects.

##### **Borates, tetra sodium salts, pentahydrate:**

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

### **Reproductive toxicity**

#### **Product:**

Effects on fertility :  
Remarks: No toxicity to reproduction

Effects on foetal development : Remarks: Did not show teratogenic effects in animal experiments.  
Information given is based on data obtained from similar substances.

#### **Components:**

##### **ammonium nitrate:**

Effects on fertility : Species: Rat

Remarks: Animal testing did not show any effects on fertility.

Effects on foetal development : Species: Rat  
Remarks: Did not show teratogenic effects in animal experiments.

##### **Borates, tetra sodium salts, pentahydrate:**

Reproductive toxicity - Assessment : In animal testing, risk of impaired fertility was shown only after administration of very high doses of this substance.  
May damage fertility. May damage the unborn child.

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### STOT - single exposure

#### Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

#### Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

#### Components:

##### **ammonium nitrate:**

Species: Rat  
NOAEL: > 1.500 mg/kg  
Application Route: Oral  
Exposure time: 28 d

Species: Rat  
NOAEL: = 256 mg/kg  
Application Route: Oral  
Exposure time: 52 w  
Method: OECD Test Guideline 453

Species: Rat  
NOAEL:  $\geq$  185 mg/kg  
Application Route: by inhalation  
Exposure time: 2 w  
Method: Repeated Dose Inhalation Toxicity: 28-day or 14-day Study.

### Experience with human exposure

#### Product:

General Information : Danger of methaemoglobin formation.

### Further information

#### Product:

Remarks: The product was not tested. The statement was derived from products of similar structure and composition.

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## SECTION 12: Ecological information

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### 12.1 Toxicity

#### **Product:**

- Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 422 mg/l  
Exposure time: 48 h  
Test Type: static test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 555 mg/l  
Exposure time: 48 h  
Test Type: static test
- Toxicity to algae : No observed effect concentration (Desmodesmus subspicatus (green algae)): 83 mg/l  
Exposure time: 168 h  
Test Type: other  
Method: No data available
- Toxicity to bacteria : EC20 (activated sludge): ca. > 100 mg/l  
Exposure time: 0,5 h  
Test Type: other  
Method: No data available

#### **Components:**

##### **ammonium nitrate:**

- Toxicity to fish : LC50 (Fish): > 100 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 490 mg/l  
Exposure time: 48 h  
  
LC50 : 490 mg/l
- Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 1.700 mg/l  
Exposure time: 10 d

##### **Borates, tetra sodium salts, pentahydrate:**

- Toxicity to fish : LC50 (dab): 74 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 242 mg/l  
Exposure time: 24 h
- Toxicity to algae : EC10 (Scenedesmus subspicatus): 24 mg/l  
Exposure time: 96 h

### 12.2 Persistence and degradability

#### **Product:**

- Biodegradability : Remarks: The product works in the soil as fertilizer and is

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diminished in a few weeks.

### Components:

#### **ammonium nitrate:**

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

#### Components:

##### **ammonium nitrate:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -3,1

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : Remarks: No data available

### 12.6 Other adverse effects

#### Product:

Additional ecological information : Disposal via sewage water treatment plants may cause impairment of the nitrification activity of the activated sludge. There is a high probability that the product is acute not harmful to aquatic organisms.  
Additional ecological information  
The product has not been tested. The information is derived from the properties of the individual components.  
At higher pH values, which can be found in natural surface waters, an increase of toxic effects on aquatic organisms may be expected.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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|                        |   |
|------------------------|---|
| Product                | : Check if agriculture use is possible.<br>Contact manufacturer.  |
| Contaminated packaging | : Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned. |

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### SECTION 14: Transport information

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

|   |   |
|---|---|
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : This product contains substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57). Borates, tetra sodium salts, pentahydrate |
|---|---|

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Water contaminating class (Germany) | : WGK 1 slightly water endangering |
|-------------------------------------|------------------------------------|

|                   |                               |
|-------------------|-------------------------------|
| Other regulations | : TRGS 511 'Ammonium nitrate' |
|-------------------|-------------------------------|

This product is subject to Regulation (EU) 2019/1148; suspicious transactions, disappearance or theft of the product must be reported to the relevant authority.

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### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this product.

### SECTION 16: Other information

#### Full text of H-Statements

H272 : May intensify fire; oxidizer.  
H319 : Causes serious eye irritation.  
H360FD : May damage fertility. May damage the unborn child.

#### Full text of other abbreviations

Eye Irrit. : Eye irritation  
Ox. Sol. : Oxidizing solids  
Repr. : Reproductive toxicity

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

#### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not

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to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DE / EN