

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



## Top Nursery 15-7-14

Version: 1.6  
Date of last issue: 06.04.2023  
Date of first issue: 13.07.2020

Revision Date:  
14.01.2024

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

#### 1.1 Product identifier

Trade name : Top Nursery 15-7-14

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

Use of the Substance/Mixture : Fertiliser

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

Company : COMPO EXPERT GmbH  
Krögerweg 10  
D-48155 Münster

Telephone : +49 (0) 251 29 79 81 – 000

Telefax : +49 (0) 251 29 79 81 - 111

E-mail address of person responsible for the SDS : info@compo-expert.com

#### 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 Statements : EUH210 Safety data sheet available on request.

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

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### 2.3 Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Fertiliser  
NPK - fertilizer containing: Ammonium Nitrate, ammonium salts, phosphates, potassium sulphate, magnesium sulphate, salts of calcium, potassium and possibly magnesium and trace elements.

#### Hazardous components

| Chemical name                             | CAS-No.<br>EC-No.<br>Registration number                 | Classification                         | Concentration<br>(% w/w) |
|---|--|--|--------------------------|
| ammonium nitrate                          | 6484-52-2<br><br>229-347-8<br><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><br>215-540-4<br><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.

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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

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 firefighting : Thermal decomposition can lead to release of irritating gases and vapours.  
Nitrogen oxides (NO<sub>x</sub>)  
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 : Keep away from children.

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### 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.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Keep away from direct sunlight.  
Keep away from heat.  
Protect from contamination.  
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 : Wash hands before breaks and at the end of workday.

### 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 from moisture.

Advice on common storage : Keep away from strong acids.  
Keep away from strong bases.  
Keep away from combustible materials.

Storage class (TRGS 510) : 5.1C, Ammonium nitrate and ammonium nitrate containing preparations

Dampness : Keep in a dry place.

### 7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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### 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 the OEL and biological tolerance values, there is no risk of harming the unborn child |                               |                                |             |
|   |   | AGW                           | 0,5 mg/m <sup>3</sup> (Borate) | DE TRGS 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 unborn 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         | 6,7 mg/m <sup>3</sup> |

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|  |           |              |  |                       |
|--|-----------|--------------|--|-----------------------|
|  | 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,<br>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,<br>pentahydrate | Fresh water               | 2,9 mg/l  |
|  | 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

Eye protection : In case of dust formation:  
Safety glasses

Hand protection  
Material : Gloves

Skin and body protection : No special protective equipment required.

Respiratory protection : Breathing apparatus only if aerosol or dust is formed.  
Respirator with a particle filter (EN 143)

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P1 filter

### 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 : solid

Colour : various

Odour : odourless

Odour Threshold : No data available

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

Melting point/range : No data available

Boiling point/boiling range : Not applicable

Flash point : Not relevant

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

Relative density : Not applicable

Bulk density : ca. 1.150 kg/m<sup>3</sup>

Solubility(ies)  
Water solubility : soluble

Partition coefficient: n- : Not applicable

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octanol/water

Decomposition temperature : ca. 130 °C  
To avoid thermal decomposition, do not overheat. The product is capable of self-sustaining progressive thermal decomposition.

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : Not considered an oxidizing substance

### Particle characteristics

Particle Size Distribution : D50 = 3,1 mm  
D50 Tolerance range = 2,7 mm - 3,5 mm  
Measurement technique: Optoelectronic measurement method

## 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.  
Decomposes on heating.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Evolution of ammonia under influence of alkalies.

### 10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.

### 10.5 Incompatible materials

Materials to avoid : Sulphur, chlorites, chloride, chlorates, Hypochlorites, acid or alkaline reacting substances, flammable oxidizable substances, nitrites, metallic salts, metallic powder, herbicide, chlorinated hydrocarbons, organic compounds.



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### 10.6 Hazardous decomposition products

Hazardous decomposition products : Nitrogen oxides (NOx)  
ammonia

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## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: This information is not available.  
Health injuries are not known or expected under normal use.

##### 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:

Result: non-irritant

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

##### 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  
Remarks: The product has not been tested. The information is derived from the properties of the individual components.

#### **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: No data available

#### **Components:**

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### **ammonium nitrate:**

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: >= 185 mg/kg  
Application Route: by inhalation  
Exposure time: 2 w  
Method: Repeated Dose Inhalation Toxicity: 28-day or 14-day Study.

### Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available

### Experience with human exposure

**Product:**

General Information : Danger of methaemoglobin formation.

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### 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

### 12.1 Toxicity

#### 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: No data available

#### 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.
-

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### 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: Groundwater contamination is unlikely.

Distribution among environmental compartments : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : Remarks: No data available

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

#### Product:

Additional ecological information : Information refers to the main component.  
Do not flush into surface water or sanitary sewer system.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Check if agriculture use is possible.  
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 or ID number

ADN : UN 2071

ADR : Not regulated as a dangerous good

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**RID** : Not regulated as a dangerous good

**IMDG** : UN 2071

**IATA** : UN 2071

### 14.2 UN proper shipping name

**ADN** : AMMONIUM NITRATE BASED FERTILIZER

**ADR** : Not regulated as a dangerous good

**RID** : Not regulated as a dangerous good

**IMDG** : AMMONIUM NITRATE BASED FERTILIZER

**IATA** : Ammonium nitrate based fertilizers

### 14.3 Transport hazard class(es)

**ADN** : 9

**ADR** : Not regulated as a dangerous good

**RID** : Not regulated as a dangerous good

**IMDG** : 9

**IATA** : 9

### 14.4 Packing group

**ADN**  
Packing group : Not assigned by regulation

Classification Code : M11

Labels : 9

**ADR** : Not regulated as a dangerous good

Special Provisions : UN2071: not subject to ADR (special provision 193)

**RID** : Not regulated as a dangerous good

#### **IMDG**

Packing group : III

Labels : 9

EmS Code : F-H, S-Q

Segregation group : 2: Ammonium compounds

#### **IATA**

Packing instruction (cargo aircraft) : 909

Packing instruction (passenger aircraft) : 958

Packing instruction (LQ) : Y909

Packing group : III

Labels : 9

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### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : no

#### ADR

: Not regulated as a dangerous good

#### RID

: Not regulated as a dangerous good

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

Not applicable

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

Remarks : IMSBC Code bulk cargo shipping name  
Ammonium Nitrate Based Fertilizer, Group B

## 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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

|   |  | Quantity 1 | Quantity 2 |
|---|--|------------|------------|
| 1 | Ammonium nitrate: fertilizers capable of self-sustaining decomposition | 5.000 t    | 10.000 t   |

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.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.



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### 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

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; 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; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; 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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### 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

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not 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.

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