

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Enforce® Fairways 15-5-15

Version	Revision Date:	SDS Number:	Date of last issue: 16.09.2024
1.2	24.09.2024	M0073	Date of first issue: 14.09.2024

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

#### 1.1 Product identifier

Trade name : Enforce® Fairways 15-5-15

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

Use of the Sub-  
stance/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.

#### 2.2 Label elements

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

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

##### Additional Labelling

EUH210 Safety data sheet available on request.

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

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### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Inorganic fertiliser

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
ammonium nitrate	6484-52-2 229-347-8 01-2119490981-27-0050	Ox. Sol. 3; H272 Eye Irrit. 2; H319	>= 10 - < 20
Ferrous sulfate monohydrate	17375-41-6 231-753-5 026-003-00-7 01-2119513203-57-XXXX	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 <hr/> Acute toxicity estimate  Acute oral toxicity: 300,03 mg/kg	>= 1 - < 10
Calcium nitrate, tetrahydrate	13477-34-4 233-332-1 01-2119495093-35-XXXX	Ox. Sol. 3; H272 Acute Tox. 4; H302 Eye Dam. 1; H318 <hr/> Acute toxicity estimate  Acute oral toxicity: 302 mg/kg	>= 1 - < 3

For explanation of abbreviations see section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- |                            |   |   |
|----------------------------|---|---|
| General advice             | : | Move out of dangerous area.<br>Consult a physician.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.  |
| Protection of first-aiders | : | First Aid responders should pay attention to self-protection and use the recommended protective clothing<br>If potential for exposure exists refer to Section 8 for specific personal protective equipment. |
| If inhaled                 | : | If breathed in, move person into fresh air.<br>If symptoms persist, call a physician.   |
| 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.<br>If eye irritation persists, consult a specialist.   |
| If swallowed               | : | Clean mouth with water and drink afterwards plenty of water.<br>Obtain medical attention.   |

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

- |          |   |   |
|----------|---|---|
| Symptoms | : | Ingestion may provoke the following symptoms:<br>Methaemoglobinemia |
|----------|---|---|

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

- |           |   |                        |
|-----------|---|------------------------|
| Treatment | : | Treat symptomatically. |
|-----------|---|------------------------|
- 

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- |                                |   |  |
|--------------------------------|---|--|
| Suitable extinguishing media   | : | Water<br>Dry chemical<br>Water mist<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : | High volume water jet<br>Carbon dioxide (CO <sub>2</sub> )<br>Foam<br>Sand   |

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

Specific hazards during fire-fighting : Thermal decomposition can lead to release of irritating gases and vapours.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide  
Carbon oxides  
Oxides of phosphorus  
Sulphur oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
The product itself does not burn.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Avoid contact with skin, eyes and clothing.  
Wash contaminated clothing before re-use.  
Avoid breathing dust.  
For personal protection see section 8.  
For disposal considerations see section 13.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Pick up and transfer to properly labelled containers.

### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid contact with skin and eyes.  
Wear personal protective equipment.  
Keep away from combustible material.  
Keep away from heat and sources of ignition.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.
- Hygiene measures : Keep away from food, drink and animal feedingstuffs. Wash hands before eating, drinking, or smoking. Wash hands before breaks and at the end of workday.
- Dust explosion class : No data available

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

- Further information on storage conditions : Keep away from sources of ignition - No smoking. Keep away from direct sunlight. Protect from moisture. Protect from contamination.
- Advice on common storage : Keep away from combustible materials.  
Keep away from strong acids.  
Keep away from strong bases.  
Keep away from food, drink and animal feedingstuffs.
- Storage class (TRGS 510) : 5.1C
- Further information on storage stability : Protect from frost, heat and sunlight.

#### 7.3 Specific end use(s)

- Specific use(s) : Not relevant

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
ammonium sulphate	Workers	Skin contact	Long-term systemic effects	42,667 mg/kg
	Workers	Inhalation	Long-term systemic effects	11,167 mg/m <sup>3</sup>
	Consumer use	Oral	Long-term systemic effects	6,4 mg/kg
	Consumer use	Skin contact	Long-term systemic effects	12,8 mg/kg
	Consumer use	Inhalation	Long-term systemic effects	1,667 mg/kg
N,N''-(isobutylidene)diurea	Workers	Skin contact	Long-term systemic effects	37,5 mg/kg
	Workers	Inhalation	Long-term systemic effects	66,12 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	18,75 mg/kg
	Consumers	Inhalation	Long-term systemic effects	16,31 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	9,37 mg/kg
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	

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

Substance name	Environmental Compartment	Value
ammonium sulphate	Fresh water	0,312 mg/l
	Marine water	0,0312 mg/l
	Intermittent use/release	0,53 mg/l
	Soil	62,6 mg/kg
		16,12 mg/l
N,N''-(isobutylidene)diurea	Fresh water	0,063 mg/kg
	Fresh water	0,5 mg/l

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	Marine water	0,05 mg/l
	Fresh water sediment	1,76 mg/l
	Marine sediment	0,176 mg/l
	Soil	10,7 mg/l
	Behaviour in waste water treatment plants	640 mg/l
ammonium nitrate	Sewage treatment plant	18 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Gloves

Directive : Equipment should conform to EN 374

Remarks : As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.

Skin and body protection : Long sleeved clothing

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.  
Equipment should conform to EN 14387

Filter type : Filter type P

Protective measures : Handle in accordance with good industrial hygiene and safety practice.  
Wash contaminated clothing before re-use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : solid

Colour : beige

Odour : very faint

Melting point/range : not determined

Boiling point/boiling range : not determined

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Flammability : Will not burn

Upper explosion limit / Upper flammability limit : Not applicable

Lower explosion limit / Lower flammability limit : Not applicable

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : > 130 °C

pH : 5 - 6 (20 °C)  
Concentration: 100 g/l

Solubility(ies)  
Water solubility : soluble

Partition coefficient: n-octanol/water : Not applicable

Bulk density : 750 - 950 kg/m<sup>3</sup>

Particle characteristics  
Particle Size Distribution : D50 = 1,5 mm ± 0,4 mm  
Measurement technique: Optoelectronic measurement method

### 9.2 Other information

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-ignition : not auto-flammable

Minimum explosible dust concentration : No data available



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Dust explosion class : No data available

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : None reasonably foreseeable.  
Heating can release hazardous gases.

#### 10.4 Conditions to avoid

Conditions to avoid : Hot surface(s)  
Direct sources of heat.

#### 10.5 Incompatible materials

Materials to avoid : Strong bases  
Organic materials  
Powdered metals

#### 10.6 Hazardous decomposition products

Hazardous decomposition products : Nitrogen oxides (NO<sub>x</sub>)  
Oxides of phosphorus  
Sulphur oxides  
ammonia

### SECTION 11: Toxicological information

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

##### Acute toxicity

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

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

##### Components:

##### ammonium nitrate:

Acute oral toxicity : Assessment: The substance or mixture has no acute oral toxicity

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Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

### **Ferrous sulfate monohydrate:**

Acute oral toxicity : LD50: > 300 - < 2.000 mg/kg  
Assessment: Harmful if swallowed.

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

### **Calcium nitrate, tetrahydrate:**

Acute oral toxicity : LD50 (Rat): 302 mg/kg  
Assessment: Harmful if swallowed.

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

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

#### **Components:**

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

Assessment : No skin irritation

##### **Ferrous sulfate monohydrate:**

Assessment : Irritating to skin.

##### **Calcium nitrate, tetrahydrate:**

Assessment : No skin irritation

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

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

#### **Product:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

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Remarks : Based on data from similar materials

### Components:

#### **ammonium nitrate:**

Species : Rabbit  
Exposure time : 24 h  
Assessment : Irritating to eyes.  
Method : OECD Test Guideline 405

#### **Ferrous sulfate monohydrate:**

Assessment : Irritating to eyes.

#### **Calcium nitrate, tetrahydrate:**

Assessment : Risk of serious damage to eyes.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

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

#### **Respiratory sensitisation**

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

### Components:

#### **ammonium nitrate:**

Assessment : Does not cause skin sensitisation.  
Assessment : Does not cause respiratory sensitisation.

#### **Ferrous sulfate monohydrate:**

Assessment : Does not cause skin sensitisation.  
Assessment : Does not cause respiratory sensitisation.

#### **Calcium nitrate, tetrahydrate:**

Assessment : Does not cause skin sensitisation.  
Assessment : Does not cause respiratory sensitisation.

### **Germ cell mutagenicity**

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

### Components:

#### **ammonium nitrate:**

Genotoxicity in vitro : Method: OECD Test Guideline 471

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Result: negative

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### **Ferrous sulfate monohydrate:**

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### **Calcium nitrate, tetrahydrate:**

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### **Carcinogenicity**

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

### **Components:**

#### **ammonium nitrate:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

#### **Ferrous sulfate monohydrate:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

#### **Calcium nitrate, tetrahydrate:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **Reproductive toxicity**

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

### **Components:**

#### **ammonium nitrate:**

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

#### **Ferrous sulfate monohydrate:**

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

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### Calcium nitrate, tetrahydrate:

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

### STOT - single exposure

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

#### Components:

##### ammonium nitrate:

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

##### Ferrous sulfate monohydrate:

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

##### Calcium nitrate, tetrahydrate:

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

### STOT - repeated exposure

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

#### Components:

##### ammonium nitrate:

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

##### Ferrous sulfate monohydrate:

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

##### Calcium nitrate, tetrahydrate:

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

### Repeated dose toxicity

#### Components:

##### ammonium nitrate:

Species : Rat

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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 : inhalation (dust/mist/fume)  
Exposure time : 2 w  
Method : OECD Test Guideline 412

### Aspiration toxicity

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

#### Components:

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

No aspiration toxicity classification

##### **Ferrous sulfate monohydrate:**

No aspiration toxicity classification

##### **Calcium nitrate, tetrahydrate:**

No aspiration toxicity classification

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

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

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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
Toxicity to algae/aquatic plants	:	ErC50 (diatoms): 1.700 mg/l Exposure time: 10 h
Toxicity to microorganisms	:	EC50 (activated sludge): 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

### 12.2 Persistence and degradability

#### Components:

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

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

### 12.3 Bioaccumulative potential

#### Components:

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

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### 12.7 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- |                        |   |  |
|------------------------|---|--|
| Product                | : | Do not flush into surface water or sanitary sewer system. Dispose of in accordance with local regulations. Waste codes should be assigned by the user based on the application for which the product was used. |
| Contaminated packaging | : | Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.   |
- 

## SECTION 14: Transport information

### 14.1 UN number or ID number

- |        |   |                                   |
|--------|---|-----------------------------------|
| ADN    | : | Not regulated as a dangerous good |
| ADR    | : | Not regulated as a dangerous good |
| RID    | : | Not regulated as a dangerous good |
| IMDG   | : | Not regulated as a dangerous good |
| IATA_P | : | Not regulated as a dangerous good |

### 14.2 UN proper shipping name

- |        |   |                                   |
|--------|---|-----------------------------------|
| ADN    | : | Not regulated as a dangerous good |
| ADR    | : | Not regulated as a dangerous good |
| RID    | : | Not regulated as a dangerous good |
| IMDG   | : | Not regulated as a dangerous good |
| IATA_P | : | Not regulated as a dangerous good |

### 14.3 Transport hazard class(es)

- |        |   |                                   |
|--------|---|-----------------------------------|
| ADN    | : | Not regulated as a dangerous good |
| ADR    | : | Not regulated as a dangerous good |
| RID    | : | Not regulated as a dangerous good |
| IMDG   | : | Not regulated as a dangerous good |
| IATA_P | : | Not regulated as a dangerous good |

### 14.4 Packing group

- |     |   |                                   |
|-----|---|-----------------------------------|
| ADN | : | Not regulated as a dangerous good |
|-----|---|-----------------------------------|
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**ADR** : Not regulated as a dangerous good  
**RID** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA (Cargo)** : Not regulated as a dangerous good  
**IATA\_P (Passenger)** : 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 Maritime transport in bulk according to IMO instruments

Regulatory basis : IMSBC Code  
MHB : no  
IMSBC Group : C

## 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) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. ammonium nitrate (ANNEX I)  
Calcium nitrate, tetrahydrate (ANNEX II)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

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according to Regulation (EC) No. 1907/2006, as amended by  
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Water hazard class (Germany) : WGK 1 slightly hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

### 15.2 Chemical safety assessment

Not relevant

## SECTION 16: Other information

### Full text of H-Statements

H272 : May intensify fire; oxidizer.  
H302 : Harmful if swallowed.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Ox. Sol. : Oxidizing solids  
Skin Irrit. : Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - 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

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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 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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