according to Regulation (EC) No. 1907/2006

Fertilis Speed



Version: 2.3 Revision Date: 08.02.2021

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

1.1 Product identifier

Trade name : Fertilis Speed

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

Use of the Sub- : Fertilizer

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : COMPO EXPERT GmbH

Kroegerweg 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

Quality / Safety / Environment Telephone: +49 (0) 2151 - 579 - 0

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 ac-

cording to Regulation (EC) No. 1272/2008.

Supplemental Hazard

Statements

: EUH210

Safety data sheet available on request.

Further information : German "Hazardous Substances" legislation (Ge-

fahrstoffverordnung) appendix I, No. 5 (Ammonium Nitrate

group C III)

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

according to Regulation (EC) No. 1907/2006

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3.2 Mixtures

Hazardous components

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

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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water

according to Regulation (EC) No. 1907/2006

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Unsuitable extinguishing

media

: Foam

Dry chemical

Carbon dioxide (CO2)

Sand

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.

Nitrogen oxides (NOx)

ammonia

5.3 Advice for firefighters

for firefighters

Special protective equipment : 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Keep away from children.

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.

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.

according to Regulation (EC) No. 1907/2006

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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 sub-

stance/mixture.

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 so- dium salts, pen- tahydrate | 12179-04-3 | | 3 mg/m3 | 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/m3 (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/m3 | ACGIHTLV |

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

according to Regulation (EC) No. 1907/2006

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| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|-----------|----------------------------|--|-----------------------|
| ammonium nitrate | Workers | Inhalation | Long-term systemic effects | 36 mg/m3 |
| | 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/m3 |
| | 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/m3 |
| | Consumers | Inhalation | Long-term exposure | 3,4 mg/m3 |
| | 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 |
| | 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.

according to Regulation (EC) No. 1907/2006

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Respiratory protection : respiratory protection only if aerosol or dust is formed.

Respirator with a particle filter (EN 143)

P1 filter

Environmental exposure controls

General advice : Do not empty into drains.

Retain and dispose of contaminated wash water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : solid

Colour : blue

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/m³

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

: Not applicable

Decomposition temperature : > 130 °C

according to Regulation (EC) No. 1907/2006

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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

9.2 Other information

No data available

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, chlorin-

ated hydrocarbons, organic compounds.

10.6 Hazardous decomposition products

Hazardous decomposition

products

: Nitrogen oxides (NOx)

ammonia

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: This information is not available.

Health injuries are not known or expected under normal use.

according to Regulation (EC) No. 1907/2006

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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

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

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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:

ammonium nitrate:

Genotoxicity in vitro : Method: OECD Test Guideline 471

Result: negative

Borates, tetra sodium salts, pentahydrate:

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

sessment

Carcinogenicity

Product:

Remarks: Contains no ingredient listed as a carcinogen

Components:

ammonium nitrate:

Species: Rat

Remarks: Animal testing did not show any carcinogenic effects.

according to Regulation (EC) No. 1907/2006

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Borates, tetra sodium salts, pentahydrate:

Carcinogenicity - Assess-

ment

: Carcinogenicity classification not possible from current data.

Reproductive toxicity

Product:

Effects on fertility

Remarks: No toxicity to reproduction

Effects on foetal develop-

ment

: Remarks: Did not show teratogenic effects in animal experi-

ments

Information given is based on data obtained from similar sub-

stances.

Components:

ammonium nitrate:

Effects on fertility : Species: Rat

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

Effects on foetal develop-

ment

: Species: Rat

Remarks: Did not show teratogenic effects in animal experi-

ments.

Borates, tetra sodium salts, pentahydrate:

Reproductive toxicity - As-

sessment

: 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.

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

according to Regulation (EC) No. 1907/2006

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Application Route: Oral Exposure time: 28 d

Species: Rat

NOAEL: = 256 mg/kgApplication 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.

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.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Toxicity to fish

ammonium nitrate:

: 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

: EC50 (Selenastrum capricornutum (green algae)): 1.700 mg/l Toxicity to algae

Exposure time: 10 d

Borates, tetra sodium salts, pentahydrate:

Toxicity to fish : LC50 (dab): 74 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 242 mg/l

Exposure time: 24 h

according to Regulation (EC) No. 1907/2006

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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 degra-

dability 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: Groundwater contamination is unlikely.

Distribution among environ-

mental compartments

: 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 infor-

: Information refers to the main component.

mation Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

according to Regulation (EC) No. 1907/2006

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Product : Check if agriculture use is possible.

Contact manufacturer.

Contaminated packaging : Contaminated packaging should be emptied as far as possi-

ble; then it can be passed on for recycling after being thor-

oughly cleaned.

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

Remarks : Not relevant

SECTION 15: Regulatory information

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

Water contaminating class

Carmany

: WGK 1 slightly water endangering

(Germany)

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.

SECTION 16: Other information

Full text of H-Statements

H272 : May intensify fire; oxidizer.

according to Regulation (EC) No. 1907/2006

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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 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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