according to Regulation (EC) No. 1907/2006

Basatop® Fairways 14-7-14



Version: 1.6 Revision Date:
Date of last issue: 06.04.2023 14.01.2024

Date of first issue: 05.03.2018

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

1.1 Product identifier

Trade name : Basatop® Fairways 14-7-14

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

Use of the : Fertiliser

Substance/Mixture

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

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 C III)

according to Regulation (EC) No. 1907/2006

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2.3 Other hazards

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

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.

and Urea

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

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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

: Ingestion may provoke the following symptoms: **Symptoms**

Methaemoglobinemia

: Later control for pneumonia and lung oedema. Risks

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

Unsuitable extinguishing

media

Foam

Dry chemical

Carbon dioxide (CO2)

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 (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

according to Regulation (EC) No. 1907/2006

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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.

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.

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Material Safety Data Sheet according to Regulation (EC) No. 1907/2006

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Occupational Exposure Limits

| Components | CAS-No. | Value type (Form | Control parameters | Basis |
|---|---|------------------|-----------------------|----------------|
| Borates, tetra sodium salts, pentahydrate | 12179-04-3 | of exposure) | 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 |
| | | TWA | 1 mg/m3 | 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/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 |

according to Regulation (EC) No. 1907/2006

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| 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.

Respiratory protection : Breathing apparatus only if aerosol or dust is formed.

Respirator with a particle filter (EN 143)

according to Regulation (EC) No. 1907/2006

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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

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/m³

Solubility(ies)

Water solubility : soluble

Partition coefficient: n- : Not applicable

according to Regulation (EC) No. 1907/2006

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octanol/water

Decomposition temperature : > 130 °C

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

Particle characteristics

Particle Size Distribution : D50 = 1,5 mm

D50 Tolerance range = 1,2 mm - 1,8 mm

Measurement technique: Optoelectronic measurement

method

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,

chlorinated hydrocarbons, organic compounds.

10.6 Hazardous decomposition products

according to Regulation (EC) No. 1907/2006

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Hazardous decomposition

products

: Nitrogen oxides (NOx)

ammonia

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

Borates, tetra sodium salts, pentahydrate:

Species: Rabbit

Result: No skin irritation

according to Regulation (EC) No. 1907/2006

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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:

ammonium nitrate:

Genotoxicity in vitro : Method: OECD Test Guideline 471

Result: negative

according to Regulation (EC) No. 1907/2006

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Borates, tetra sodium salts, pentahydrate:

Germ cell mutagenicity: In vitro tests showed mutagenic effects

Assessment

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 - : Carcinogenicity classification not possible from current data.

Assessment

Reproductive toxicity

Product:

Effects on fertility :

Remarks: No toxicity to reproduction

Effects on foetal : Remarks: Did not show teratogenic effects in animal

development 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 : Species: Rat

development Remarks: Did not show teratogenic effects in animal

experiments.

Borates, tetra sodium salts, pentahydrate:

Reproductive toxicity -

: In animal testing, risk of impaired fertility was shown only after

Assessment 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.

according to Regulation (EC) No. 1907/2006

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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:

ammonium nitrate:

: LC50 (Fish): > 100 mg/l Toxicity to fish

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

: EC10 (Scenedesmus subspicatus): 24 mg/l Toxicity to algae

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.

according to Regulation (EC) No. 1907/2006

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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 refers to the main component.

information

Do not flush into surface water or sanitary sewer system.

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.

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 : 111 : 9 Labels

EmS Code : F-H, S-Q

Segregation group : 2: Ammonium compounds

IATA

Packing instruction (cargo

aircraft)

: 909

Packing instruction

: 958

(passenger aircraft)

Packing instruction (LQ) : Y909 : 111 Packing group 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

Other regulations : TRGS 511 'Ammonium nitrate'

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. 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

according to Regulation (EC) No. 1907/2006

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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 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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