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

Basafer Plus
Basafer Plus 5,3

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

1.1 Product identifier
Trade name : Basafer Plus

1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of the Substance/Mixture : Fertilizer

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

Precautionary statements : P102
Prevention: P270
Keep out of reach of children.
Do not eat, drink or smoke when using this product.

2.3 Other hazards
None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Chemical nature : Iron chelate (EDDHA)
Material Safety Data Sheet
according to Regulation (EC) No. 1907/2006

Basafer Plus
Basafer Plus 5,3

Version: 2.3
Revision Date: 30.10.2019

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Registration number</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>[EDDHA.Fe] Na</td>
<td>84539-55-9</td>
<td>283-044-5</td>
<td>01-2119487279-21-0002</td>
<td>&lt;= 100</td>
<td></td>
</tr>
</tbody>
</table>

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:
Take off immediately all contaminated clothing.
Wash contaminated clothing before re-use.

If inhaled:
Fresh air.
Warmth.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact:
Wash thoroughly 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 eye irritation persists, consult a specialist.

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

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:
No information available.

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
Carbon dioxide (CO2)
Foam
Dry powder
The product is not flammable.
Use extinguishing measures that are appropriate to local cir-
cumstances and the surrounding environment.

Unsuitable extinguishing media: none

5.2 Special hazards arising from the substance or mixture
Specific hazards during fire-fighting: No particular hazards known.

5.3 Advice for firefighters
Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes.
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.

SECTION 6: Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures
Personal precautions: Avoid contact with skin, eyes and clothing. Avoid breathing dust. Ensure adequate ventilation. Use personal protective equipment. In case of involuntary exposition of the product contact producer or supplier.

6.2 Environmental precautions
Environmental precautions: Do not empty into drains. 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: Use mechanical handling equipment. Sweep up or vacuum up spillage and collect in suitable container for disposal.

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: Avoid dust formation. Avoid inhalation, ingestion and contact with skin and eyes. Keep only in the original container.
Avoid the formation and deposition of dust.

Advice on protection against fire and explosion:
- Keep away from sources of ignition - No smoking.

Hygiene measures:
- Keep away from food, drink and animal feedingstuffs. Take off immediately all contaminated clothing. Wash hands before breaks and at the end of workday. Do not breathe dust. Do not breathe fumes. Use protective skin cream before handling the product.

7.2 Conditions for safe storage, including any incompatibilities
- Requirements for storage areas and containers:
  - Keep in a dry, cool and well-ventilated place.
- Further information on storage conditions:
  - Protect against water. Protect from moisture.
- Storage class (TRGS 510):
  - 13, Non Combustible Solids

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
- Obey general dustlimit.

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

<table>
<thead>
<tr>
<th>Substance name</th>
<th>End Use</th>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>[EDDHA.Fe] Na</td>
<td>Workers</td>
<td>Skin contact</td>
<td></td>
<td>0,8 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td></td>
<td>1,8 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Eye contact</td>
<td></td>
<td>0,417 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td></td>
<td>0,435 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Ingestion</td>
<td></td>
<td>0,125 mg/kg</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Environmental Compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>[EDDHA.Fe] Na</td>
<td>Water</td>
<td>2,4 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>0,24 mg/l</td>
</tr>
<tr>
<td></td>
<td>Intermittent use/release</td>
<td>1,2 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>1,9 mg/kg</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet
according to Regulation (EC) No. 1907/2006

Basafer Plus
Basafer Plus 5,3

Version: 2.3
Revision Date: 30.10.2019

<table>
<thead>
<tr>
<th>Marine sediment</th>
<th>0.19 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil</td>
<td>1.6 mg/kg</td>
</tr>
<tr>
<td>Behaviour in waste water treatment plants</td>
<td>45 mg/l</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Engineering measures
Ensure thorough ventilation of stores and work areas.
Take precautionary measures against static discharges.

Personal protective equipment
Eye protection: Safety glasses with side-shields conforming to EN166
Hand protection
Remarks: Chemical resistant protective gloves (EN 374).
Skin and body protection: Protective suit
Respiratory protection: No personal respiratory protective equipment normally required.
Remarks: Respiratory protection only if aerosol or dust is formed.
Half mask with a particle filter P2 (EN 143)
Protective measures: Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls
General advice: Do not empty into drains.
Remarks: If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance: crystalline
Colour: brown
Odour: characteristic
pH: 7.5 - 9.5, (20 °C)
Melting point/range: > 200 °C
Decomposes before melting.
Boiling point/boiling range: Not applicable
Flash point: Not applicable
Flammability (solid, gas): does not ignite
### Upper explosion limit
Not applicable

### Lower explosion limit
Not applicable

### Vapour pressure
Not applicable

### Relative vapour density
Not applicable

### Relative density
Not applicable

### Bulk density
ca. 450 - 650 g/cm³

### Water solubility
120 g/l soluble

### Partition coefficient: n-octanol/water
log Pow: < -4.2

### Decomposition temperature
No decomposition if stored and applied as directed.

### 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.

#### 10.3 Possibility of hazardous reactions
Hazardous reactions: No decomposition if stored and applied as directed.

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

#### 10.5 Incompatible materials
Materials to avoid: Oxidizing agents
10.6 Hazardous decomposition products

Hazardous decomposition products:
- Nitrogen oxides (NOx)
- Carbon dioxide (CO2)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:
[EDDHA.Fe] Na:
- Acute oral toxicity: LD50 (Rat): > 2.000 mg/kg
  Method: Acute Oral Toxicity.
- Acute inhalation toxicity: LC50 (Rat): 4.2 mg/l
  Method: Acute Inhalation Toxicity
- Acute dermal toxicity: LD50 (Rat): > 2.000 mg/kg
  Method: OECD Test Guideline 402

Skin corrosion/irritation

Components:
[EDDHA.Fe] Na:
Species: Rabbit
Method: Acute Dermal Irritation/Corrosion.
Result: No skin irritation

Serious eye damage/eye irritation

Components:
[EDDHA.Fe] Na:
Species: Rabbit
Method: Acute Eye Irritation/Corrosion.
Result: No eye irritation

Respiratory or skin sensitisation

Components:
[EDDHA.Fe] Na:
Test Type: Mouse Local Lymph Node Assay (LLNA)
Species: Rat
Method: OECD Guideline 429
Result: Did not cause sensitisation on laboratory animals.
Material Safety Data Sheet
according to Regulation (EC) No. 1907/2006

Basafer Plus
Basafer Plus 5,3

Germ cell mutagenicity
Components:
[EDDHA.Fe] Na:
Genotoxicity in vitro  : Remarks: Contains no hazardous ingredients according to GHS

Carcinogenicity
Components:
[EDDHA.Fe] Na:
Remarks: Contains no ingredient listed as a carcinogen

Reproductive toxicity
Components:
[EDDHA.Fe] Na:
Effects on fertility  : Remarks: Contains no ingredient listed as toxic to reproduction
Effects on foetal development  : Remarks: Contains no ingredient listed as toxic to reproduction

STOT - single exposure
Components:
[EDDHA.Fe] Na:
Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure
Components:
[EDDHA.Fe] Na:
Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

SECTION 12: Ecological information
12.1 Toxicity
Components:
[EDDHA.Fe] Na:
Toxicity to fish  : LC50 (Fish): > 120 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other  : LC50 (Daphnia magna): > 120 mg/l
aquatic invertebrates: Method: OECD Test Guideline 202
Toxicity to algae: LC50: > 294 mg/l
Method: Algae, Growth Inhibition Test
Toxicity to bacteria: > 1.000 mg/l
Method: OECD Guideline 209

12.2 Persistence and degradability

Components:
[EDDHA.Fe] Na:
Biodegradability: Remarks: Expected to be biodegradable

12.3 Bioaccumulative potential

Components:
[EDDHA.Fe] Na:
Bioaccumulation: Remarks: Does not bioaccumulate.
Partition coefficient: n-octanol/water: log Pow: < -4,2

12.4 Mobility in soil

Components:
[EDDHA.Fe] Na:
Mobility: Medium: Soil
Remarks: No data available

12.5 Results of PBT and vPvB assessment

Components:
[EDDHA.Fe] Na:
Assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

12.6 Other adverse effects

Product:
Additional ecological information: water endangering
Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product: Do not dispose of with domestic refuse.
Fertilizer
Check if agriculture use is possible.
Do not flush into surface water or sanitary sewer system.

Contaminated packaging: Offer rinsed packaging material to local recycling facilities.
If recycling is not practicable, dispose of in compliance with local regulations.

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 (Germany): WGK 2 water endangering

15.2 Chemical Safety Assessment
A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations
(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;
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.

DE / EN