

## Basacote Plus 16-8-12 (3MO, 6MO, 9MO)

Version: 2.1

Revision Date: 28.08.2017

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Basacote Plus 16-8-12 (3MO, 6MO, 9MO)

#### 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  
Krögerweg 10  
D-48155 Münster

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

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

E-mail address : info@compo-expert.com

#### 1.4 Emergency telephone number

Central Safety & Environment  
Telephone:+49 (0) 2151 579 - 0

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

#### 2.2 Label elements

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

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

#### 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.

##### Hazardous Materials Information Label (HMIS)

Health:1

Flammability:1

Physical Hazard:1

Personal Protection:-

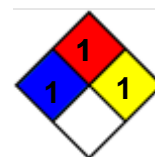
##### NFPA Hazard Ratings

Health:1

Flammability:1

Reactivity:1

Unique Hazard:



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### 3. Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Fertilizer  
 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. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Ammonium Nitrate	6484-52-2 229-347-8 01- 2119490981- 27-XXXX	Ox. Sol. 3; H272 Eye Irrit. 2; H319	>= 10 - < 45
disodium tetraborate pentahydrate	12179-04-3 215-540-4 01- 2119490790- 32-XXXX	Repr. 1B; H360FD Eye Irrit. 2; H319	<= 0,2

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. First aid measures

#### 4.1 Description of first aid measures

General advice : Wash hands with water as a precaution.

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

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

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Treatment	: Treat according to symptoms (decontamination, vital functions), treat with toluonium chloride to reverse methaemoglobinaemia.
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**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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**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 materials 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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**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.

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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.

### 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 : Do not store together with oxidizing and self-igniting products.

German storage class : 5.1C Ammonium nitrate and ammonium nitrate containing preparations

### 7.3 Specific end uses

: Consult the technical guidelines for the use of this substance/mixture.

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## 8. Exposure controls/personal protection

### 8.1 Control parameters

DNEL  
Ammonium Nitrate

: End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Specific effects  
Exposure time: 1 d  
Value: 37,6 mg/m<sup>3</sup>

End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Specific effects  
Exposure time: 1 d  
Value: 21,3 mg/kg

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Specific effects  
Exposure time: 1 d  
Value: 12,8 mg/kg

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Specific effects  
Exposure time: 1 d  
Value: 12,8 mg/kg

End Use: Consumers

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Exposure routes: Inhalation  
Potential health effects: Specific effects  
Exposure time: 1 d  
Value: 11,1 mg/m<sup>3</sup>

**PNEC**

Ammonium Nitrate : Fresh water  
Value: 0,45 mg/l

Marine water  
Value: 0,045 mg/l

Ceiling Limit Value  
Value: 4,5 mg/l

**8.2 Exposure controls****Personal protective equipment**

Respiratory protection : Breathing apparatus only if aerosol or dust is formed.  
Respirator with a particle filter (EN 143)  
P1 filter

Hygiene measures : Wash hands before breaks and at the end of workday.

**Environmental exposure controls**

General advice : Do not empty into drains.  
Retain and dispose of contaminated wash water.

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**9. Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance : solid

Colour : various

Odour : odourless

pH : ca. 5, Concentration: 100,00 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.

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : Not applicable

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Water solubility	: soluble
Partition coefficient: n-octanol/water	: Not applicable
Autoignition temperature	: not auto-flammable
Thermal decomposition	: ca. 130 °C, To avoid thermal decomposition, do not overheat., The product is capable of self-sustaining progressive thermal decomposition.
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: Not applicable

**9.2 Other information**

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

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**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**

Hazardous decomposition products : nitrogen oxides (NOx)  
ammonia

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**11. Toxicological information****11.1 Information on toxicological effects****Product**

Acute oral toxicity : LD50: > 2.000 mg/kg, rat  
Skin corrosion/irritation : rabbit, Result: non-irritant, OECD Test Guideline 404  
Serious eye damage/eye irritation : rabbit, Result: non-irritant, OECD Test Guideline 405

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Respiratory or skin sensitization	: Result: non-sensitizing
Germ cell mutagenicity	
Genotoxicity in vitro	: Contains no hazardous ingredients according to GHS
Carcinogenicity	: Contains no ingredient listed as a carcinogen
Reproductive toxicity	: No toxicity to reproduction
Teratogenicity	: Did not show teratogenic effects in animal experiments.
STOT - single exposure	: Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	: Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Further information	: The product was not tested. The statement was derived from products of similar structure and composition.

**Components:****Ammonium Nitrate :**

Acute oral toxicity	: LD50: > 2.950 mg/kg, rat, OECD Test Guideline 401
Acute inhalation toxicity	: > 88,8 mg/l, No information available.
Acute dermal toxicity	: LD50: > 5.000 mg/kg, rat, OECD Test Guideline 402
Skin corrosion/irritation	: rabbit, Result: non-irritant, OECD Test Guideline 404
Serious eye damage/eye irritation	: rabbit, Result: Irritant, OECD Test Guideline 405
Respiratory or skin sensitization	: Result: Does not cause skin sensitization.
Germ cell mutagenicity	
Genotoxicity in vitro	: Result: negative, OECD Test Guideline 471
Carcinogenicity	: rat, Animal testing did not show any carcinogenic effects.
Reproductive toxicity	: rat, Animal testing did not show any effects on fertility.
Teratogenicity	: rat, Did not show teratogenic effects in animal experiments.
STOT - repeated exposure	: rat, Oral, Exposure time: 28 d, NOAEL: > 1.500 mg/kg
STOT - repeated exposure	: rat, Oral, Exposure time: 52 w, NOAEL: = 256 mg/kg, OECD Test Guideline 453
STOT - repeated exposure	: rat, by inhalation, Exposure time: 2 w, NOAEL: >= 185 mg/kg, Repeated Dose Inhalation Toxicity: 28-day or 14-day Study.

**disodium tetraborate pentahydrate :**

Acute oral toxicity	: LD50: 3.200 - 3.400 mg/kg, rat
Acute inhalation toxicity	: LC50: > 2,0 mg/l, rat, OECD Test Guideline 403
Acute dermal toxicity	: LD50: > 2.000 mg/kg, rabbit
Skin corrosion/irritation	: rabbit, Result: No skin irritation
Serious eye damage/eye irritation	: rabbit, Result: Moderate eye irritation, Classification: Irritant

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Respiratory or skin sensitization	:	Buehler Test, guinea pig, Result: Does not cause skin sensitization., OECD Test Guideline 406
Germ cell mutagenicity Assessment	:	In vitro tests showed mutagenic effects

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## 12. Ecological information

### 12.1 Toxicity

#### Components:

##### **Ammonium Nitrate :**

Toxicity to fish	:	LC50: > 100 mg/l, 96 h, Fish
Toxicity to daphnia and other aquatic invertebrates.	:	EC50: 490 mg/l, 48 h, Daphnia : LC50: 490 mg/l
Toxicity to algae	:	EC50: 1.700 mg/l, 10 d, Selenastrum capricornutum (green algae)

##### **disodium tetraborate pentahydrate :**

Toxicity to fish	:	LC50: 74 mg/l, 96 h, dab
Toxicity to daphnia and other aquatic invertebrates.	:	EC50: 242 mg/l, 24 h, Daphnia magna (Water flea)
Toxicity to algae	:	EC10: 24 mg/l, 96 h, Scenedesmus subspicatus

### 12.2 Persistence and degradability

#### Product:

Biodegradability	:	no data available
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#### Components:

##### **Ammonium Nitrate :**

Biodegradability	:	The methods for determining the biological degradability are not applicable to inorganic substances.
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### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation	:	Bioaccumulation is unlikely.
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#### Components:

##### **Ammonium Nitrate :**

Bioaccumulation	:	Bioaccumulation is unlikely.
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### 12.4 Mobility in soil

#### Product:



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Mobility : Groundwater contamination is unlikely.  
 Distribution among environmental compartments : no data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : no data available

### 12.6 Other adverse effects

**Product:**

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

## 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.

## 14. Transport information

### 14.1 UN number

2071



### 14.2 Proper shipping name

ADR / GGVS : Not relevant  
 RID : Not relevant  
 ADNR : AMMONIUM NITRATE BASED FERTILIZER  
 IMDG : AMMONIUM NITRATE BASED FERTILIZER  
 IATA-DGR : AMMONIUM NITRATE BASED FERTILIZER  
 DOT : Not relevant

### 14.3 Transport hazard class

ADR / GGVS : Not relevant  
 RID : Not relevant  
 ADNR : 9  
 IMDG : 9  
 IATA-DGR : 9  
 DOT : Not relevant

### 14.4 Packing group

III



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### 14.5 Environmental hazards

IMDG : Not a Marine Pollutant

### 14.6 Special precautions for user

Not relevant

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : Not relevant

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## 15. Regulatory information

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

U.S. Regulations National Inventory TSCA

ammonium nitrate: listed  
disodium tetraborate pentahydrate; borax pentahydrate: listed (13840-56-7)  
magnesium sulfate: listed  
potassium sulfate: listed

SARA

ammonium nitrate: not listed  
disodium tetraborate pentahydrate; borax pentahydrate: not listed  
magnesium sulfate: not listed  
potassium sulfate: not listed

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

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## 16. Other information

### Full text of H-Statements referred to under sections 2 and 3.

H272	May intensify fire; oxidiser.
H319	Causes serious eye irritation.
H360FD	May damage fertility. May damage the unborn child.

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.