

Basacote Plus 15-8-12 (12MO)

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 15-8-12 (12MO)

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: -

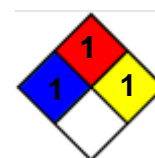
NFPA Hazard Ratings

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 methaemoglobinanaemia.
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5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Water
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Unsuitable extinguishing media	:	Foam Dry chemical Carbon dioxide (CO ₂) Sand
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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 _x) ammonia
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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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Keep away from children.
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6.2 Environmental precautions

Environmental precautions	:	Do not empty into drains. Retain and dispose of contaminated wash water.
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6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	:	Use mechanical handling equipment.
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6.4 Reference to other sections

For personal protection see section 8.

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.

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/m³

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/m³

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.

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/m³

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 (NO_x)
ammonia

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

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Serious eye damage/eye irritation	: rabbit, Result: non-irritant, OECD Test Guideline 405
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



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Skin corrosion/irritation	:	rabbit, Result: No skin irritation
Serious eye damage/eye irritation	:	rabbit, Result: Moderate eye irritation, Classification: Irritant
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

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 :

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Bioaccumulation : Bioaccumulation is unlikely.

12.4 Mobility in soil

Product:

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



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DOT : Not relevant

14.4 Packing group

III

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

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.

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.

Material Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03.



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