

**BASIC N / NITRATE - PLUS**

Version number: GHS 1.1

Date of creation: 08.11.2021

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

**1.1 Product identifier**

Trade name	<b>Basic N</b>
Registration number (REACH)	not available
EINECS number	not available
CAS number	not available

**Other designations**

Product number	BN
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**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses	Uses by consumers Nitrate source for increasing the NO <sub>3</sub> value in marine or freshwater aquariums
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**1.3 Details of the supplier of the safety data sheet**

ARKA Biotechnologie GmbH  
Mühlbach 53-55 90552  
Röthenbach Germany

Phone: +49 (0)911 5698610 00  
Fax: +49 (0)911 5698610 29  
e-mail (knowledgeable person)

info@arka-biotech.de

**1.4 Emergency number**

Emergency information service	Poison control center Munich Available by phone 24h / 7 days a week Phone: +49 (0)89 19240
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**SECTION 2: Hazards identification**

**2.1 Classification of the mixture**

**Classification according to Regulation (EC) No 1272/2008 (CLP)**  
Eye Irrit. 2, H319 (Serious eye damage/irritation, Category 2, H319)

**2.2 Labeling according to Regulation (EC) No. 1272/2008 (CLP)**



**Signal word: Caution**

**H-phrases:**

**H319:** Causes serious eye irritation.

**P-phrases:**

**P101:** If medical advice is needed, have product container or label at hand.

**P102:** Keep out of the reach of children.

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**P264:** Wash hands thoroughly after handling.

**P306 + 360:** IF ON CLOTHING: Wash contaminated clothing and skin immediately with plenty of water and then remove clothing.

**P337 + P313:** If eye irritation persists: Get medical advice/attention.

### 2.3 Other dangers

This mixture contains no components in concentrations that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

<b>Substance name</b>	Sodium nitrate	
Registration number (REACH)	01-2119488221-41-xxxx	
EC number	231-554-3	
CAS number	7631-99-4	
Content of the mixture	10%-15%	
Sum formula	NaNO <sub>3</sub>	
Molecular weight	84.99 g/mol	
 <b>Substance name</b>	 Ammonium chloride	
EC number	235-186-4	
CAS number	12125-02-9	
Content of the mixture	0,05-0,1%	
Sum formula	NH <sub>4</sub> Cl	
Molecular weight	53.49 g/mol	

## SECTION 4: First aid measures

### 4.1 Description of first aid measures General notes

Remove soiled, soaked clothing immediately. If symptoms occur or in case of doubt, seek medical advice. If unconscious, place in recovery position and do not administer anything by mouth. Show this safety data sheet to the attending physician.

**After inhalation**

Provide fresh air. If symptoms persist, consult a doctor.

**After contact with the skin**

Wash/shower skin with soap and plenty of water. If symptoms persist, consult a doctor.

**After contact with the eyes**

Keep eyelids open and rinse thoroughly with clean, running water for at least 15 minutes. Remove any contact lenses if possible. Continue rinsing. Consult a doctor.

**After ingestion by swallowing**

DO NOT induce vomiting. Rinse mouth with water. Consult a doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

### 4.3 Information on immediate medical assistance or special treatment

No information available.

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### SECTION 5: Fire-fighting measures

- 5.1 Extinguishing agent**  
**Suitable extinguishing agents**  
Water, foam, alcohol-resistant foam, ABC powder. Adapt extinguishing measures to the surroundings.  
**Unsuitable extinguishing agents**  
None
- 5.2 Special hazards arising from the substance or mixture**  
Carbon oxides. Vapors may form explosive mixtures with air.  
**Hazardous combustion products**  
No further relevant information available.
- 5.3 Instructions for firefighting**  
Fight the fire with the usual precautions from an appropriate distance. Stay in the danger zone only with self-contained breathing apparatus. Avoid skin contact by maintaining a safe distance or wearing suitable protective clothing.

### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**  
**Staff not trained for emergencies**  
Avoid contact with skin and eyes. Ensure good ventilation.  
**Emergency services**  
Respiratory protective equipment must be worn when exposed to vapors, dusts, aerosols and gases.  
Personal protective equipment: see section 8.
- 6.2 Environmental protection measures**  
Prevent the product from entering the sewage system or surface and ground water.
- 6.3 Methods and material for retention and cleaning**  
**Instructions on how to prevent spilled materials from spreading**  
Cover the drainage systems. Observe possible material restrictions! (Information in section 7 or 10). Pick up mechanically.  
**Further information on spillage and release**  
Dispose of in suitable containers.
- 6.4 Reference to other sections**  
Hazardous combustion products: see section 5. Personal protective equipment: see section 8.  
Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

- 7.1 Protective measures for safe handling**  
**Recommendations**  
**Advice on general hygiene in the workplace**  
Wash hands after use. Do not eat, drink or smoke in areas where work is being carried out. Remove contaminated clothing and protective equipment before entering areas where food is eaten. Do not eat food and drinks together with chemicals. Do not use containers for chemicals that are normally intended for holding food. Keep away from food, drinks and animal feed.
- 7.2 Conditions for safe storage, taking into account incompatibilities**  
Keep container tightly closed. Store in a dry place protected from sunlight.  
**Incompatible substances or mixtures**  
Observe storage instructions.
- 7.3 Specific end uses**  
See section 1.2.

### SECTION 8: Exposure controls/personal protective equipment

- 8.1 Parameters to be monitored**  
**National limit values**

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no data available

### 8.2.1 General protective and hygiene measures

Keep away from food, drink and animal feed.  
Wash hands before breaks and at the end of work.  
Avoid contact with eyes and skin.

### 8.2.2 Individual protective measures (personal protective equipment)

#### Eye/face protection

Wear safety goggles/face protection.

#### Skin protection

Wear protective clothing. Remove contaminated clothing and wash before reuse.

#### Hand protection

Wear protective gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the resulting standard EN 374.

#### Other protective measures

The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. Wash hands thoroughly after use.

#### Respiratory protection

Respiratory protection is required for: Aerosol or mist formation. Type: A (against organic gases and vapors with boiling point > 65 °C, identification color: brown). The wearing time limits according to GefStoffV in conjunction with the rules for the use of respiratory protective devices (BGR 190) must be observed.

### 8.2.3 Limiting and monitoring environmental exposure

Prevent penetration into the canal lization or into surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties Appearance

Physical state	liquid
color	clear / whitish
Odor	Chemical odor

#### Other physical and chemical parameters

pH value	6,5-8,0
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gaseous)	No data available
Explosion limits of dust/air mixtures	No data available
Vapor pressure	No data available
Density	No data available
Bulk density	not applicable
Solubility(ies)	
Water solubility	No data available
Partition coefficient	
n-octanol/water (log KOW)	No data available No data available
Auto-ignition temperature	available
Viscosity	liquid
Explosive properties	No data available
Oxidizing properties	No data available

### 9.2 Other information

No data is available.

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No further relevant information available.

#### 10.2 Chemical stability

No decomposition when used as intended.

#### 10.3 Possibility of hazardous reactions

May cause fire or explosion.

#### 10.4 Conditions to avoid

Heat, flames and sparks.

#### 10.5 Incompatible materials

Oxidizing agents, alkali metals, ammonia, peroxides.

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products formed during use, storage, spillage and heating are not known. Hazardous combustion products: see section 5.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

**Classification according to GHS (1272/2008/EC, CLP) Acute toxicity**

No data available.

**Corrosive/irritant effect on the skin**

No corrosive/irritant effect on the skin

**Serious eye damage/eye irritation**

Severe eye irritation

**Sensitization of the respiratory tract or skin**

Based on available data, the classification criteria are not met.

**Summary of the assessment of CMR properties**

Based on available data, the classification criteria are not met.

**Specific target organ toxicity (STOT)**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Other information**

Further hazardous properties cannot be excluded. The usual precautions for handling chemicals must be observed. The usual precautionary measures for handling chemicals must be observed.

### SECTION 12: Environmental information

#### 12.1 Toxicity

No data is available

#### 12.2 Bioaccumulative potential

Not applicable.

#### 12.3 Mobility in soil

No data is available.

#### 12.2 Results of the PBT and vPvB assessment

Not applicable.

#### 12.3 Other harmful effects

No data is available.

### SECTION 13: Disposal instructions

#### 13.1 Waste treatment processes

Product residues must be disposed of in accordance with the Waste Directive 2008/98/EC and national and

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regional regulations.

**Information relevant for waste treatment**

Store only in the original container.

**Information relevant for disposal via wastewater**

Do not allow to enter drains.

**Waste treatment of containers/packaging**

Completely emptied packaging can be recycled.

Contaminated packaging must be treated in the same way as the substance.

**Notes**

Please observe the relevant national or regional regulations. Waste must be separated in such a way that it can be treated separately by the municipal or national waste disposal facilities.

### SECTION 14: Transport information

<b>14.1 UN number</b>	No dangerous goods according to national and international transport regulations up to a container size of 1000ml.
<b>14.2 UN proper shipping name</b>	not applicable
<b>14.3 Transport hazard classes</b> Class	Not applicable
<b>14.4 Packaging group</b>	not relevant
<b>14.5 Environmental hazards</b>	none (not hazardous to the environment according to dangerous goods regulations)
<b>14.6 Special precautions for the user</b> Not applicable.	
<b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b> Not applicable.	

### SECTION 15: Legislation

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

**Labeling according to Regulation (EC) No. 1272/2008**

The product is classified and labeled according to the CLP regulation (see section 2)

**Hazard warnings**

See section 2

**Water hazard class**

WGK 1 (self-classification)                      slightly hazardous to water

**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out for this substance.

### SECTION 16: Other information

**Abbreviations and acronyms**

Abbr.	Descriptions of the abbreviations used
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Occupational exposure limit
CAS	Chemical Abstracts Service (database of chemical compounds and their unique key, the CAS Registry Number)
CLP	Regulation (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures

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CMR	Carcinogenic, Mutagenic or toxic for Reproduction (carcinogenic, mutagenic or toxic for reproduction)
DFG	German Research Foundation List of MAK and BAT values, Senate Commission for the Examination of Health Hazardous Substances, Wiley-VCH, Weinheim
DMEL	Derived minimal effect level (derived exposure level with minimal impairment)
DNEL	Derived No-Effect Level (derived exposure level without impairment)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
Index no.	The index number is the identification code given in Part 3 of Annex VI to Regulation (EC) No 1272/2008.
KZW	Short-term value
LGK	Storage class according to TRGS 510, Germany
MARPOL	International Convention for the Prevention of Pollution from Ships (abbreviation of "Marine Pollu- tant")
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration (estimated no-effect concentration)
ppm	Parts per million (parts per million)
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals (Registration, Evaluation, Authorization and Restriction of Chemicals)
SMW	Shift average
TRGS	Technical Rules for Hazardous Substances (Germany)
TRGS 900	Occupational exposure limits (TRGS 900)
VbF	Ordinance on flammable liquids (Austria)
vPvB	Very Persistent and very Bioaccumulative (very persistent and very bioaccumulative)

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### Important literature and data sources

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU-GHS)

### List of relevant phrases (code and wording as indicated in chapters 2 and 3)

Code	Text
H271 H319	May cause fire or explosion; strong oxidizer Causes serious eye irritation

### Disclaimer

This information is based on our current knowledge. This SDS has been compiled exclusively for this product and is intended solely for this product.

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