

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 03.07.2014

Version: 1. 0

Revision: 03.07.2014

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

- **1.1 Product identifier**
- **Trade name: Nitrophoska ® 20+10+10(+3 S)**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- **Uses advised against:** -
- **Application of the substance / the preparation:** Fertilizer
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier/Manufacturer:**  
EuroChem Agro GmbH  
Reichskanzler-Müller-Str. 23  
68165 Mannheim Deutschland  
Germany
- Tel.: +49 621 87209-0  
Fax: +49 621 87209-101  
E-mail: info@eurochemagro.com
- **Email competent person:** sds@kft.de
- **Information department:** See supplier/manufacturer
- **1.4 Emergency telephone number:**  
National Response Center (international)  
TUIS-Emergency number: +49 1802 273112

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008** The product is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** not applicable
- **Information concerning particular hazards for human and environment:**  
No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet.
- **Classification system:**  
Classification is not based on Dangerous Regulation (EG)1272/2008, because the ammonium nitrate precursor was not classified as eye irritant by the manufacturer, based on his own test results.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**  
Safety data sheet available on request.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterization: Mixtures**
- **Description:**  
NPK - fertilizer based on: ammonium nitrate, ammonium salts, phosphates, calcium salts, potassium and potentiell magnesium as well as further compositions.

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**· Dangerous components:**

CAS: 6484-52-2	ammonium nitrate	≥10-≤70%
EINECS: 229-347-8	Xi R36; O R8	
Reg.nr.: 01-2119490981-27-XXXX	Ox. Sol. 2, H272; Eye Irrit. 2, H319	

CAS: 12125-02-9	ammonium chloride	≥1-<25%
EINECS: 235-186-4	Xn R22; Xi R36	
Index number: 017-014-00-8	Acute Tox. 4, H302; Eye Irrit. 2, H319	
Reg.nr.: 2119489385-24-0017-xxxx		

**· Additional information:** For the wording of the listed risk phrases refer to section 16.

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### SECTION 4: First aid measures

**· 4.1 Description of first aid measures**
**· General information:** If symptoms persist or in case of doubt, seek medical advice.

**· After inhalation:** If dust is inhaled, supply fresh air; consult a doctor in case of complaints.

**· After skin contact:**

Wash with water and soap.

If skin irritation continues, consult a doctor.

**· After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**· After swallowing:**

Drink plenty of water, but never give anything to an unconscious person.

Do not induce vomiting.

If symptoms persist, consult doctor.

**· 4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

**· 4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment

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### SECTION 5: Firefighting measures

**· 5.1 Extinguishing media**
**· Suitable extinguishing agents:**

Water

The product is not combustible and does not support any combustion.

Use fire fighting measures suiting the environment.

**· For safety reasons unsuitable extinguishing agents:**

Sand

Foam

Extinguishing powder

Carbon dioxide

**· 5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Nitrogen oxides (NOx)

Ammonia

Chlorine

Hydrogen chloride (HCl)

Phosphorus compounds

Persons who have inhaled fire effluents require medical observation for at least 48 hours. Symptoms of poisoning may even occur several hours after the accident.

**· 5.3 Advice for firefighters**
**· Protective equipment:**

Wear self-contained respiratory protective device.

Wear a fully protective suit.

Do not inhale combustion vapours.

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- **Additional information:** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
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#### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid formation of dust.
  - **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to penetrate the ground/soil.  
In case of seepage into the ground inform responsible authorities.
  - **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Avoid any dust formation. Pick up with a tested and approved industrial vacuum cleaner if necessary.  
Rinse residues with water.  
Make sure to recycle or dispose of in suitable receptacles.
  - **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
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#### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Avoid contact with eyes and skin.  
Prevent formation of dust.  
Any deposit of dust which cannot be avoided must be regularly removed.  
Do not smoke. Keep ignition sources away.
  - **Information about protection against explosions and fires:**  
Protect from heat.  
Observe the general rules of industrial fire protection.
  - **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage:**
  - **Requirements to be met by storerooms and receptacles:**  
Store container tightly sealed at a cool and dry place with sufficient ventilation.
  - **Information about storage in one common storage facility:**  
Follow local requirements for the storage in one common storage facility of ammonium nitrate.  
Store away from foodstuffs.  
Store away from feed.  
In case of bulk storage, do not mix with other fertilizers.  
Store away from organic materials  
Refer to national regulations for storing hazardous chemicals.
  - **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Protect from heat and direct sunlight.  
(Product is hygroscopic, clumping together or decomposition possible).
  - **Storage class:** 13 Non combustible solid
  - **7.3 Specific end use(s)** No further relevant information available
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#### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.

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- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**

**12125-02-9 ammonium chloride**

WEL (Great Britain) Short-term value: 20 mg/m<sup>3</sup>  
 Long-term value: 10 mg/m<sup>3</sup>

- **DNELs**

Abbreviations:

In = Industrial

Prof = Professional

Cons = Consumer

LLE = Long term, local effects

LSE = Long term, systemic effects

SLE = Short term, local effects

SSE = Short term, systemic effects

**6484-52-2 ammonium nitrate**

Oral DNEL/Cons/LSE 12.8 mg/kg bw/day (human)

Dermal DNEL/Cons/LSE 12.8 mg/kg bw/day (human)

DNEL/In/LSE 21.3 mg/kg bw/day (human)

Inhalative DNEL/Cons/LSE 11.1 mg/m<sup>3</sup> (human)DNEL/In/LSE 37.6 mg/m<sup>3</sup> (human)
**12125-02-9 ammonium chloride**

Oral DNEL/In/SSE 11.4 mg/kg bw/day (human)

Dermal DNEL/Cons/SSE 114 mg/kg bw/day (human)

DNEL/In/SSE 190 mg/kg bw/day (human)

Inhalative DNEL/In/SSE 33.5 mg/m<sup>3</sup> (human)

- **PNECs**

Abbreviations:

aq = aqua

sed = sediment

**6484-52-2 ammonium nitrate**

PNEC 18 mg/l (sewage treatment plant)

PNEC/Aq 0.45 mg/l (fresh water)

4.5 mg/l (intermittent release)

0.045 mg/l (marine water)

**12125-02-9 ammonium chloride**

PNEC/Aq 1.2 mg/l (fresh water)

11.2 mg/l (marine water)

- **Additional information:** The lists that were valid during the creation were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Vacuum contaminated clothing. Do not blow or brush off contamination.

Wash hands before breaks and at the end of work.

Use skin protection cream for skin protection.

- **Breathing equipment:**

At formation of dust:

Short term filter device (EN 149):

Filter P1

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- **Protection of hands:**

Chemical resistant gloves (EN 374)

After use of gloves apply skin-cleaning agents and skin cosmetics.

The glove material has to be impermeable and resistant to the product/substance/preparation.

Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**

For undissolved solid substances following materials may be suitable:

nitrile rubber (NBR), butyl rubber (BR), fluorocarbon rubber (FKM) and polychloroprene rubber (CR)

The selection of suitable gloves depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Safety glasses

- **Body protection:** Protective work clothing

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### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information:**

- **Appearance:**

Form: Granulate

Colour: Different according to colouring

- **Odour:** Nearly odourless

- **Odour threshold:** Not determined

- **pH-value (100 g/l) at 20 °C:** 5

- **Change in condition:**

Melting point/Melting range: Not determined

Boiling point/Boiling range: Not determined

- **Flash point:** Not applicable

- **Flammability (solid, gaseous):** Not applicable

- **Ignition temperature:**

Decomposition temperature: >130 °C

- **Self ignition temperature:** Product is not self-igniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

Lower: Not applicable

Upper: Not applicable

- **Vapour pressure:** Not determined

- **Density:** Not determined

- **Bulk density at 20 °C:** 1100 kg/m<sup>3</sup>

- **Relative density:** Not determined

- **Vapour density:** Not determined

- **Evaporation rate:** Not determined

- **Solubility in / Miscibility with**

Water: Largely soluble

- **Partition coefficient (n-octanol/water):** Not determined

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· <b>Viscosity:</b>	
dynamic:	Not determined
kinematic:	Not determined
· <b>9.2 Other information</b>	No further relevant information available

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications
- **10.3 Possibility of hazardous reactions**  
Reacts with alkalis forming ammonia.  
The formation of gaseous decomposition products occur in tightly closed containers pressure.
- **10.4 Conditions to avoid**  
Strong heating  
Temperatures > 130 °C
- **10.5 Incompatible materials:**  
Combustible substances  
Oxidants  
Acids  
Alkalis
- **10.6 Hazardous decomposition products:**  
No hazardous decomposition products if instructions for storage and handling are followed

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**  
No toxicity data are available for the product itself.
- **6484-52-2 ammonium nitrate**  
Oral LD<sub>50</sub> 4820 mg/kg (rat)  
The mortalities indicated a LD50 value in the range of 1205-5000 mg/kg.  
Acute inhalation toxicity: > 88,8 mg/l, No information available., Not relevant because of low vapour pressure., Not relevant because of low dust formation.
- **12125-02-9 ammonium chloride**  
Oral LD<sub>50</sub> 1650 mg/kg (rat)
- **Primary irritant effect:**
- **on the skin:** No irritating effect species: rabbit OECD test 404
- **on the eye:** Eye irritation is possible after mechanical influence (dust).
- **On respiratory tract:** No irritating effect
- **Sensitization:** No sensitizing effects known
- **Other information (about experimental toxicology):**
- **Carcinogenic, mutagenic effects and adverse effects on reproduction:**  
Presently available data show no carcinogenic, mutagenic or teratogenic effects.
- **Subacute to chronic toxicity:**
- **STOT-single exposure** No classification
- **STOT-repeated exposure:** No classification
- **Aspiration hazard** Not relevant

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- **Additional toxicological information:**

The product itself has not been tested. The statements have been deduced from products of similar structure or composition.

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### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

**6484-52-2 ammonium nitrate**

EC <sub>50</sub>	1700 mg/l (Algae)
	490 mg/l (Daphnia magna)
LC <sub>50</sub>	490 mg/l (Daphnia magna)
LC <sub>50</sub> /48h	447 mg/l (Cyprinus carpio)
LC <sub>50</sub> /96h	>100 mg/l (fish)

**12125-02-9 ammonium chloride**

LC <sub>50</sub> /48h (static)	161 mg/l (Daphnia magna)
LC <sub>50</sub> /96h	209 mg/l (Cyprinus carpio)

- **12.2 Persistence and degradability** Not applicable for inorganic substances.

- **12.3 Bioaccumulative potential** No further relevant information available

- **12.4 Mobility in soil** No further relevant information available

- **Ecotoxicological effects:**

- **Other information:**

Large quantities of nitrates reaching lakes and water courses can cause over-fertilization (eutrofication).

If appropriately low concentrations are discharged into biological treatment plants, no inhibition of the degradation activity of the activated sludge is to be expected.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous to water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Danger to drinking water is possible if large quantities leak into the ground or into water course.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable

- **vPvB:** Not applicable

- **12.6 Other adverse effects** No further relevant information available

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### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation:**

Disposal according to instructions of local authorities

Product is used as a fertilizer. Check the possibility for agricultural use before landfilling.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue based on the identification of the waste generating source.

- **European waste catalogue:**

02 00 00 WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING

02 01 00 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing

02 01 08\* agrochemical waste containing dangerous substances

- **Uncleaned packagings:**

- **Recommendation:**

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

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Disposal must be made according to official regulations.

#### SECTION 14: Transport information

· <b>14.1 UN-Number</b> · ADR, ADN, IMDG, IATA	Void
· <b>14.2 UN proper shipping name</b> · ADR, ADN, IMDG, IATA	Void
· <b>14.3 Transport hazard class(es)</b> · ADR, ADN, IMDG, IATA · Class	Void
· <b>14.4 Packing group</b> · ADR, IMDG, IATA	Void
· <b>14.5 Environmental hazards:</b> · Marine pollutant:	No
· <b>14.6 Special precautions for user</b>	Not applicable
· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable
· <b>Transport/Additional information:</b>	Not dangerous according to the above regulations
· <b>UN "Model Regulation":</b>	-

#### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**  
H272 May intensify fire; oxidiser.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.
- **R22** Harmful if swallowed.  
**R36** Irritating to eyes.  
**R8** Contact with combustible material may cause fire.
- **Department issuing MSDS:**  
KFT Chemieservice GmbH  
Im Leuschnerpark. 3 64347 Griesheim  
Postfach 1451 64345 Griesheim  
Germany

Phone: +49 6155 86829-0 Fax: +49 6155 86829-25  
Safety Data Sheet Service: +49 6155 86829-22

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- **Contact:** Barbara Stark

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Ox. Sol. 2: Oxidising Solids, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

- **Sources:**

ASSESSMENT OF AMMONIUM NITRATE BASED FERTILIZERS AS EYE IRRITANT FOR CLASSIFICATION PURPOSES

Report prepared by Fertilizers Europe/July 2011

MSDS of the supplier

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