

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Nitrophoska ® special 12+12+17+2 MgO+8 S+TE

Version 2.1  
Revision Date 09.11.2009

Print Date 09.11.2009

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product information

Trade name : **Nitrophoska ® special 12+12+17+2 MgO+8 S+TE**

Company : K+S Nitrogen GmbH  
Reichskanzler-Müller-Str. 23  
D-68165 Mannheim

Telephone : +49 621 87209-102

Telefax : +49 621 87209-101

E-mail address : info@ks-nitrogen.com

Emergency telephone : BASF fire brigade Ludwigshafen  
Telephone: +49 621 60 43333

### 2. HAZARDS IDENTIFICATION

#### Risk advice to man and the environment

No particular dangers occur if the regulation/notes for storage and handling are observed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical nature

NPK - fertilizer containing: Ammonium Nitrate, ammonium salts, phosphates, salts of calcium, potassium and possibly magnesium and trace elements.

#### Hazardous components

Chemical Name	CAS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Ammonium Nitrate	6484-52-2			>= 10,00 - <= 70,00

The wording of the danger symbols and R-phrases is specified in chapter 16.

### 4. FIRST AID MEASURES

Inhalation : On inhalation of decomposition products: Keep person calm, have individual removed to fresh air, seek medical help. If danger of loss of consciousness, place person in recovery position and transport accordingly. Perform artificial respiration if necessary.  
On inhalation of fertilizer dusts: Fresh air, if necessary medical assistance.

Skin contact : Wash with soap and water.

Eye contact : Wash affected eyes for at least 15 minutes under running water with eyelids held open.

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Ingestion : Immediately rinse mouth and then drink plenty of water, seek medical assistance.

### Notes to physician

Risks : Continuous inhalation of decomposition products (nitrous gases) can cause pulmonary oedema. Symptoms can appear later.  
If swallowed danger of methemoglobin formation.

Treatment : On inhaling of decomposition products: Pulmonary oedema prophylaxis

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : When decomposing product is handled:  
Water (attention, larger quantities are necessary to stop the thermic decomposition)

Extinguishing media which shall not be used for safety reasons : Sand  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Specific hazards during fire fighting : At temperatures above 130 °C, dangerous decomposition gases can be emitted:  
Nitrogen monoxide, nitrogen dioxide, dinitrogen oxide, ammonia, chloride, hydrogen chloride.

Special protective equipment for fire-fighters : 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

Environmental precautions : Do not let product enter drains, surface water or subsoil water. Retain and dispose of polluted washing water according to regulations.

Methods for cleaning up : Use mechanical handling equipment. Rinse off remainders with water.

## 7. HANDLING AND STORAGE

### Handling

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.  
Keep away from combustible material.  
Do not smoke.  
The product is incombustible. However, it can lower the ignition temperature of combustible substances.

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### Storage

- Requirements for storage areas and containers : Protect against contamination.  
Protect against humidity (product is hygroscopic and tends to cake or disintegrate)  
Keep away from direct sunlight.  
Protect against heat.
- Storage with other substances : When stored loosely do not mix with other fertilizers.  
Store well away from other substances, particularly from organic materials.
- Storage stability : If inappropriately or improperly stored caking or disintegration possible.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

- Respiratory protection : If breathable dust is formed: Dust mask.
- Hygiene measures : At the end of the shift skin should be cleaned and skincare product applied.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

- Form : granular
- Colour : varying, according to dye or colour of the basic materials.
- Odour : almost odourless

### Safety data

- pH : ca. 5  
Method: ( 100 g/l, 20°C)
- Decomposition temperature : Thermal decomposition at above 130 °C.
- Bulk density : ca. 1.100 kg/m<sup>3</sup>
- Water solubility : mostly soluble

## 10. STABILITY AND REACTIVITY

- Materials to avoid : Inflammable, oxidizable substances, sourly reacting substances, alkalinely reacting substances.
- Hazardous decomposition products : At temperatures above 130 °C, dangerous decomposition gases can be emitted:  
Nitrogen monoxide, nitrogen dioxide, dinitrogen oxide,

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ammonia, chloride, hydrogen chloride.

Thermal decomposition : Thermal decomposition at above 130 °C.  
To avoid thermal decomposition, do not overheat.  
The product is not capable of self-sustaining progressive thermal decomposition (UN-Test S1).

Hazardous reactions : Ammonia in contact with alkaline solutions.  
The formation of gaseous decomposition products builds up pressure in tightly closed containers.

### 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat  
Dose: > 2.000 mg/kg  
Remarks: The product was not tested. The statement was derived from products of similar structure and composition.

Skin irritation : Remarks: Primary skin irritation/rabbit: Not irritating. (OECD-Guideline 404)  
Primary mucose irritation/rabbit: Not irritating. (OECD-directive 405)

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity effects

Toxicity to fish : LC50  
Species: various species  
Dose: > 100 mg/l  
Exposure time: 96 h

#### Further information on ecology

Additional ecological information : With high probability acutely not harmful to water organisms.  
With proper entering of low concentrations in adapted biological purification plants, disturbances of the degrading activity of bioactive sludge are not to be expected.

### 13. DISPOSAL CONSIDERATIONS

Product : Contact manufacturer.  
Examine usability in agriculture.

Contaminated packaging : Contaminated packages should be emptied as far as possible and can be recycled after thorough cleansing.

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### 14. TRANSPORT INFORMATION

#### Land transport

▪ *ADR:*

Remarks: No dangerous product according to the rules for road transport

#### Railway transport

▪ *RID:*

Remarks: No dangerous product according to the rules of rail transport

#### Inland waterway transport

▪ *ADNR:*

Remarks: No dangerous product according to the rules of barge transport

#### Sea transport

▪ *IMDG:*

Remarks: No dangerous product according to the rules of vessel transport

#### Air transport

▪ *IATA-DGR:*

Remarks: No dangerous product according to the rules of air transport

### 15. REGULATORY INFORMATION

#### Labelling according to EC Directives

Not subject to labelling in accordance with EEC Directives.

#### National legislation

Other regulations : The national authority permits and storage regulations must be observed.

### 16. OTHER INFORMATION

Entire wording of the danger symbols and R-phrases from chapter 3:

- Backslashes on the left margin indicate modifications to the previous version.
- The information contained herein is based on the present-day standard of knowledge and does not therefore guarantee certain properties. Recipients of our product have to take on responsibility for observing existing laws and regulations.