

# SAFETY DATA SHEET

According to Directive 2001/58/EC



Date of issue: 16-11-99

Revised on: 10-01-08

Page: 1 of 3

**Trade name:** WUXAL<sup>®</sup> Ferro  
**Product No.:** 22227

## 1 Company

Manufacturer/Supplier: AGLUKON Spezialdünger GmbH & Co. KG Telephone: +49 (0)211 5064-0  
Address: Heerdtter Landstraße 199 Telefax: +49 (0)211 5064-247  
40549 Düsseldorf, Germany  
Informing department: See chapter 16

**Emergency telephone (D/Berlin): Telephone No.: +49 (0)30 19240 (Day and Night)**

## 2 Composition/Information on Ingredients

Preparation: Iron fertilizer suspension with 5N 5Fe  
Description: Aqueous suspension of nutrient salts.

### Harmful components:

Marking	CAS-No.	Content (%)	Danger symbol	R-phrases
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Additional information: The fertilizer composition is no hazardous preparation.

## 3 Hazards Identification

Hazards designation: None.  
No hazardous product as specified in Directive 67/548/EEC.  
Particular hazards (R-phrases): None  
Harmful effects/symptoms: No information available.

## 4 First-Aid Measures

General hints: Remove soiled clothes.  
after skin contact: Immediately wash affected skin regions thoroughly with soap and plenty of water.  
after eyes contact: Thoroughly rinse eyes with lids wide apart under running water (protect the uninjured eye, remove contact lenses). Summon eye specialist if necessary.  
after ingestion: Immediately rinse the mouth with water, then drink a lot of water. Summon doctor if necessary.

## 5 Fire-Fighting Measures

Suitable extinguishing media: Water, carbon dioxide, dry extinguishing media, foam.  
Unsuitable extinguishing media: Unknown  
Specific hazards: The material itself is hardly inflammable. If larger quantities of the product are on fire, the formation of nitrous gases and ammonia is possible.  
Special equipment to protect firefighters: Do not stay in dangerous zone without suitable chemical protecting clothes and self-contained breathing apparatus.  
Other information: Contain escaping vapours with water.  
Prevent fire-fighting water from entering surface water or groundwater.

## 6 Accidental Release Measures

Personal precautions: Remove soiled clothes.  
Specific hazards: The material itself is hardly inflammable. If larger quantities of the product are on fire, the formation of nitrous gases and ammonia is possible.  
Special equipment to protect firefighters: Do not stay in dangerous zone without suitable chemical protecting clothes and self-contained breathing apparatus.  
Other information: Contain escaping vapours with water.  
Prevent fire-fighting water from entering surface water or groundwater.  
Environmental precautions: Ensure that the product does not reach the ground-water, water bodies or the drainage system.  
Methods for cleaning up/taking up: Take up with absorption media; Disposal of contaminated material as waste according to point 13.  
Additional hints:

## 7 Handling and Storage

### Handling

Advice as to safe handling: Wear suitable protecting clothes.  
Advice to prevent fire and explosion: No further requirements.

### Storage

Stockrooms and containers required: Protect the product from impurity and drying up. Keep containers densely closed. Do not store in metal containers (corrosion risk).

Storage together with other materials: Do not store together with food and luxury food, beverage and animal feed.  
Storage class: 12 Liquid product with no fire risk (National regulation, Germany: VCI-concept)  
in package with no fire risk.

VbF class: None (National regulation, Germany)

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Further information on storage conditions: Do not store below 0°C and above +30°C .

## 8 Exposure Controls/Personal Protection

### Personal protective equipment

Respiratory protection: Not required  
Hand protection: Rubber or plastic gloves  
Eye protection: Safety goggles  
Skin and body protection: Closed working clothes  
Preventive and hygiene measures: Do not eat and drink at work. Remove immediately soiled and soaked clothes. Wash hands and face after work.

## 9 Physical and Chemical Properties

### Appearance

Form/physical state: Aqueous crystal suspension  
Colour: Dark olive-green  
Odour: Product-specific

### Data relevant to safety

pH (original state): Approx. 6,5  
pH at 16 g/l H<sub>2</sub>O and 20°C: Approx. 6,7  
Change in physical state: > 100° C evaporation of water  
Boiling point/-range: Not determined °C  
Melting point/-range: Not determined °C  
Flash point: Not applicable °C  
Inflammability: Not determined  
Ignition temperature: Not determined °C  
Self-ignition: The product is not spontaneously inflammable.  
Fire-promotive properties: The product is not fire-promotive.  
Explosion hazard: The product is harmless as a solution.  
Vapor pressure (at °C): Not determined hPa  
Density (at 20°C): approx. 1,4 g/cm<sup>3</sup>  
Solubility in water (at 20°C): Approx. 200 g/l

### Method:

## 10 Stability and Reactivity

Conditions to avoid: Temperatures above +30°C. Keep the product from drying up.  
Materials to avoid: Alkalis  
Hazardous decomposition products: Reacts with alkalis setting ammonia free.  
Thermic decomposition products: If larger quantities of the product are on fire, the formation nitrous gas and ammonia is possible.  
Further information: No decomposition if correctly used. The product is stable under normal conditions.

## 11 Toxicological Information

### Toxicological tests

Acute toxicity: Toxicological data are not available.  
Toxicological effects are unknown.  
Property that must be anticipated on the basis with comparable preparations:  
LD50 (oral, rat): >10.000 mg/kg

### Further toxicological information

After inhalation of aerosols: Slight irritations of the mucous membranes and coughing.  
After skin contact: Slight irritations.  
After eye contact: Slight irritations.  
After swallowing: Nausea and vomiting.

### Further data

Further hazardous properties cannot be excluded.  
The product should be handled with the care usual when dealing with chemicals.  
No toxicological effects are to be expected when the product is handled and used with due care and attention.

## 12 Ecological Information

General information: Fertilizer material.  
Ensure that the product does not reach the ground-water, water bodies or the drainage system.  
Further ecologic data: Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of drinking- water supplies.  
No ecological problems are to be expected when the product is handled and used with due care and attention.

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Page: 3 of 3

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Water pollution class: WGK 1 - slightly water polluting preparation (own classification)

## 13 Disposal Considerations

### Product

Recommendation: Disposal of product rests in accordance with the official local disposal regulations.

According to european waste regulations:

Waste Code (EWC-No.): 161002

Waste Name: Waste from nitrogen chemical processes and fertilizer manufacture

### Contaminated packaging

Recommendation: Disposal of contaminated packages in accordance with the local official disposal regulations.

Cleaners: Water

## 14 Transport Information

### Surface transport:

No hazardous good.

### River transport

No hazardous good

### Sea navigation transport:

No hazardous good

### Air transport:

No hazardous good

### Further information:

The transport regulations are cited according to international regulations and in the form applicable in Germany (GGVS/GGVE). Possible national deviations in other countries are not considered.

## 15 Regulatory Information

### Labelling according to EC Directives

Danger symbol and designation: None

R-phrases: None

S-phrases: None

### National regulations Germany

Employment limitations: None

Interference regulations: None

Classification according to VbF: None

Technical Regulations Air: None

Water pollution class: WGK 1 - slightly water polluting preparation (own classification)

Further regulations, limitations and prohibition regulations: None

## 16 Other information

### Reason for alteration

Addition in the chapter toxicology.

Addition in the chapter ecology.

General update.

### Further information:

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*The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.*