

# SAFETY DATA SHEET



according to EC Directive 2001/58/EC

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revised on: 26-01-2005

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**Trade name:** WUXAL® Ascofol

**Product-No.:** 22373

## 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: Development Special Fertilisers Telephone: +49 (0)211 5064-250

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

## 2 Composition/Information on Ingredients

Preparation: Natural seaweed suspension  
Description: Aqueous suspension extract derived from the brown alga *Ascophyllum nodosum*.  
Use: Fertiliser, preparation for plant nutrition

### Harmful components:

<u>Marking</u>	<u>CAS-No.</u>	<u>Content (%)</u>	<u>Danger symbol</u>	<u>R-phrases</u>
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Additional information: The fertiliser 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 inhalation of vapours/aerosols: Take out to the fresh air, rest quiet and warm. Medical assistance is necessary in case of difficulty in breathing.  
after skin contact: Immediately wash affected skin regions thoroughly with soap and plenty of water. Summon doctor if necessary.  
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. Consult the doctor in case of persistent trouble.

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## 5 Fire-Fighting Measures

Suitable extinguishing media: Water, carbon dioxide, dry extinguishing media, foam  
Unsuitable extinguishing media: Unknown  
Special risks: The material itself is harmless and hardly inflammable. There are no special fire fighting procedures.  
Special equipment to protect firefighters: Do not stay in dangerous zone without suitable protecting clothes.  
Other information: If larger quantities of the product are on fire, the formation carbon monoxid and carbon dioxide is possible.

## 6 Accidental Release Measures

Personal precautions: Avoid substace contact. Wear closed working clothes, protecting glasses and hand protection. Remove soiled clothes.  
Specific hazards: The material itself is harmless and hardly inflammable as. There are no specific hazards.  
Special equipment to protect firefighters: Do not stay in dangerous zone without suitable protecting clothes.  
Environmental precautions: This material is biogradable and not considered hazardous.  
Methods for cleaning up/taking up: Take up with absorption media or sand and collect for disposal. Clean up affected area with plenty of water.  
Disposal of contaminated material as waste according to section 13.

## 7 Handling and Storage

### Handling

Advice as to safe handling: Wear suitable protecting clothes. See section 8.

Advice to prevent fire and explosion: No further requirements.

### Storage

Stockrooms and containers required: Temperature not below 0°C and above +40 °C.  
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.

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## 8 Exposure Controls/Personal Protection

### Exposure limits

The preparation contains no constituents with occupational exposure limits resp. biological occupational exposure limits requiring monitoring.

### Personal protective equipment

Respiratory protection:	Not required. Respiratory protection necessary at vapours/aerosol and wet fog formation.
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 suspension
Colour:	Dark brown
Odour:	Product-specific

### Data relevant to safety

		<u>Method:</u>
pH (original state):	Approx. 6	
pH at 10 g/l H <sub>2</sub> O and 20 °C:	Approx. 8	
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 has no explosion hazardous properties.	
Vapor pressure (at °C):	Not determined	HPa
Density (at 20°C):	approx. 1,3	g/cm <sup>3</sup>
Solubility in water (at 20°C):	Approx. 200	g/l

## 10 Stability and Reactivity

Conditions to avoid:	Temperatures above +50° C. Keep the product from drying up.
Materials to avoid:	Strong oxidizer.
Hazardous decomposition products:	The product is stable under normal conditions. No decomposition if correctly used.
Thermic decomposition products:	If larger quantities of the product are on fire, the formation carbon monoxid and carbon dioxide is possible.
Further information:	No decomposition if correctly used. The product is stable under normal conditions.

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## 11 Toxicological Information

### Toxicological tests

Acute toxicity

Quantitative data on the toxicity of this product are not available.

Property that must be anticipated on the basis with comparable preparations:

LD50 (oral, rat): >20.000 mg/kg.

The following applies to boric acid:

LD50 (oral, rat): 2660 mg/kg .

LD50 (dermal, rat): > 2000 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:

Possible symptoms: nausea, vomiting.

After uptake of large quantities:

Possible symptoms: nausea, 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

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Fertiliser material.

The following applies to boron compounds in general:

biological effects: boric acid developing as a result of hydrolysis toxic for aquatic organisms;

fish: *Gambusia affinis* 96 h. LC50: 5600 mg/l;

24 h. LC50:1800 mg/l;

Ensure that the product does not reach the ground-water, water bodies or the drainage system.

No ecological problems are to be expected when the product is handled and used with due care and attention.

## 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.): 061000

Waste Name: Wastes from the manufacture, formulation, supply and use of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture.

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## 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: No labelling duty according to the EC-Hazardous Materials Regulation.

contains R-phrases: None

contains S-phrases: None

### National regulations Germany

Particular labelling of certain preparations: No labelling duty.

Employment limitations: None

Interference regulations: None

Classification according to VbF: None

Technical Regulations Air: None

Storage class according to VCI-concept: 12 Liquid product with no fire risk.

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

Further regulations, limitations and prohibition regulations: None

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## 16 Other information

### Relevant R-Phrases (Number and full text)

For section 2:

### Reason for alteration

Addition in the chapter 11-"Toxicological information".

Addition in the chapter 12-"Ecological information".

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.*