

# SAFETY DATA SHEET



according to EC Directive 2001/58/EC

Supersedes edition of: 18-07-2002

Date of issue: 29-03-2004

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**Trade name:** WUXAL® Molybdenum

**Product No.:** 92478

## 1 Company

Manufacturer/Supplier:	AGLUKON Spezialdünger GmbH & Co. KG	Telephone:	+49 (0)211 5064-0
Address:	Heerdter Landstraße 199 40549 Düsseldorf, Germany		
Informing department:	Quality Control	Telephone:	+49 (0)211 5064-250
		Telefax:	+49 (0)211 5064-247

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

## 2 Composition/Information on Ingredients

Preparation:	Molybdenum liquid fertilizer with 6% Mo.
Description:	Aqueous solution of molybdenum complex.
Use:	Fertilizer.
Harmful components	None.
Additional information:	The product 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 aerosols/vapours:	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.
after eyes contact:	Thoroughly wash eyes with lids wide apart under running water (protect the uninjured eye, remove contact lenses).
after ingestion:	Consult the doctor in case of persistent trouble.

## 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 phosphoric acid fumes is possible.
Other information:	Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or ground-water.
Special equipment to protect firefighters:	If larger the product is on fire wear suitable chemical protecting clothes and selfcontained breathing apparatus.

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## 6 Accidental Release Measures

Personal precautions:	Avoid substance contact. Wear closed working clothes, protecting glasses and hand protection. Remove immediately soiled and soaked clothes.
Specific hazards:	The material itself is hardly inflammable. If larger quantities of the product are on fire, the formation of phosphoric acid fumes is possible.
Special equipment to protect firefighters:	If the product is on fire 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 ground-water.
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. Remove immediately soiled and soaked clothes.
Advice to prevent fire and explosion:	No further requirements.

### Storage

Stockrooms and containers required:	No further requirements.
Storage together with other materials:	Do not store together with food and luxury food, beverage and feed.
Storage class	12 Liquid product with no fire risk in package with no fire risk. <small>(National regulation, Germany: VCI-concept)</small>
VbF class:	None. <small>(National regulation, Germany)</small>
Further information on storage conditions:	Do not store below +5°C and above +40°C.

## 8 Exposure Controls/Personal Protection

### Personal protective equipment

Respiratory protection:	Required when vapours/aerosols are generated.
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 liquid
Colour:	Blue.
Odour:	Product-specific.

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## Data relevant to safety

## Method:

pH (original state):	Approx. 3	
pH at 16 g/l H <sub>2</sub> O and 20° C:	Approx. 5	
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. 1,2	g/cm <sup>3</sup>
Solubility in water (at 20°C):	Fully water-soluble in each ratio.	mg/l

## 10 Stability and Reactivity

Conditions to avoid:	Temperatures above +40° C. Keep the product from drying up.
Materials to avoid:	Alkalies.
Hazardous decomposition products:	No decomposition if correctly used.
Thermic decomposition products:	If larger quantities of the product are on fire, the formation of phosphoric acid fumes is possible.
Further information:	No decomposition if correctly used. The product is stable under normal conditions.

## 11 Toxicological Information

### Toxicological tests

Acute toxicity	Quantitative data on the toxicity of this product are not available. <u>Property that must be anticipated on the basis with comparable preparations:</u> LD50 (oral, rat): >10.000 mg/kg <u>The following applies to sodium molybdate:</u> LD50 (oral, rat): 4233 mg/kg , LD50 (dermal, rat): > 2000 mg/kg
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### Further toxicological information

After inhalation of aerosols/vapours:	Irritations of the mucous membranes, coughing, and dyspnoea.
After skin contact:	Irritations.
After eye contact:	Irritations.
After swallowing:	Nausea, vomiting, diarrhoea, depressed respiration, drop in blood pressure.
Symptoms of an acute molybdenum(VI) intoxication:	Diarrhoea, anaemia (decreased haemoglobin concentration in the blood), fatigue. Toxic effect on liver and kidneys after high doses.

### 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.

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## 12 Ecological Information

General information: Fertilizer material.  
Ensure that the product does not reach the ground-water, water bodies or the drainage system.

Biological effects: The following applies to sodium molybdate:  
Fish toxicity: Onchorhynchus mykiss LC50: 7600 mg/l /96 h.  
Daphnia toxicity: Daphnia magna EC50: 330 mg/l /48 h.  
Algeal toxicity: Selenastrum capricornutum IC50: > 100 mg/l /72 h.  
Bacterial toxicity: Ps.putida EC10: 50 mg/l /18 h.

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

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

Water pollution class: nwg - not water hazardous (self-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.): 061000

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

### Contaminated packaging

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

Cleaners: Water.

Further information: In the UK disposal may be made to a licensed treatment/disposal site in accordance with the provisions of „The Environmental Protection Act 1990“.

## 14 Transport Information

Surface transport: No hazardous good.

Inland navigation transport: No hazardous good.

Sea navigation transport: No hazardous good.

Air transport: No hazardous good.

Further information: Mailable.

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## 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: Nwg - not water hazardous (self-classification)

Further regulations, limitations and prohibition regulations: None.

## 16 Other information

### Reason for alteration

General update.

### Further information:

Data sheet writing department: Quality Control

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