

SAFETY DATA SHEET



according to EC Directive 2001/58/EC

Date of issue: 30-01-2003

revised on: 14-05-2007

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Trade name: WUXAL® Calcium
Product-No.: 21827

1 Identification of the preparation and Company

Preparation: Calcium nitrate suspension fertilizer with magnesium 10-(15CaO)-(2MgO) and with micronutrients.

Description: Aqueous crystal suspension of nutrient salts.

Use: Fertilizer, preparation for plant nutrition

Manufacturer/Supplier: AGLUKON Spezialdünger GmbH & Co. KG Telephone: +49 (0)211 5064-0

Address: Heerdter Landstraße 199 Telefax: +49 (0)211 5064-247
40549 Düsseldorf, Germany

Australian Distributor: AgNova Technologies Pty Ltd

Informing department: See chapter 16:

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

Emergency telephone Australia: Telephone No.: 1800 033 111 (Day and Night)

2 Composition/Information on Ingredients

Harmful components

<u>Marking</u>	<u>EC-No.</u>	<u>CAS-No.</u>	<u>Content %</u>	<u>Danger symbol</u>	<u>R-phrases</u>
Calcium nitrate	233-332-1	13477-34-4	10 – 50	O Oxidizing	8-36

Additional information: Full text of R-Phrases: see under section 16.

The fertilizer composition is no hazardous preparation.

3 Hazards Identification

Hazards designation: None.

Particular hazards (R-phrases): None

Special hazard information: In event of fire, the formation of nitrous gases is possible.

Harmful effects/symptoms: Unknown.

Relevant information: No hazardous product as specified in Directive 67/548/EEC.
The regulations and requirements of the Directive 96/82/EC (Seveso II) and the Directive 2003/105/EC do not apply to the preparation.

4 First-Aid Measures

General hints: Remove soiled clothes.

after inhalation: Take out to the fresh air, rest quiet and warm. Medical assistance is necessary in case of difficulty in breathing.

of vapours/aerosols:

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.

5 Fire-Fighting Measures

Suitable extinguishing media: Water, carbon dioxide, dry extinguishing media, foam.

Unsuitable extinguishing media: Unknown

Specific hazards: The material itself is harmless and hardly inflammable. Ambient fire may liberate hazardous vapours. 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.

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6 Accidental Release Measures

Personal precautions: Avoid substance contact. Wear closed working clothes, protecting glasses and hand protection. Remove soiled clothes.

Specific hazards: The material itself is harmless and hardly inflammable as. Ambient fire may liberate hazardous vapours. 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 section 13.

Additional hints:

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 +5°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.

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 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 crystal suspension

Colour: Green

Odour: Product-specific

Data relevant to safety

Method:

pH (original state): Approx. 6

pH at 16 g/l H₂O 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

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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 contains calcium nitrate. It is harmless as a suspension, but in crystallized state exists explosion hazard if mixed with inflammable materials.
Vapor pressure (at °C):	Not determined hPa
Density (at 20°C):	approx. 1,6 g/cm ³
Solubility in water (at 20°C):	Approx. 200 g/l

10 Stability and Reactivity

Conditions to avoid:	Temperatures above +40°C. Keep the product from drying up.
Materials to avoid:	Organic combustible substances, reducing agents.
Hazardous decomposition products:	No decomposition if correctly used. The product is stable under normal conditions.
Thermic decomposition products:	If larger quantities of the product are on fire, the formation nitrous gas is possible.

11 Toxicological Information

Toxicological tests

Acute toxicity (LD50)	Component	Kind of uptake	Value	Species
	WUXAL Calcium	Oral	13,1 g/kg	mouse
		Oral	10,3 g/kg	rat

The following applies to calcium nitrate
LD50 (oral, rat): 3900 mg/kg .

Further toxicological information

After inhalation of aerosols:	Slight irritation symptoms in the respiratory tract.
After skin contact:	Slight irritations.
After eye contact:	Slight irritations.
After swallowing:	Possible symptoms: nausea and vomiting
After uptake of large quantities:	The following applies to nitrites/nitrates in general: methaemoglobinaemia after the uptake of large quantities.

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

The following applies to nitrates in general: may contribute to the eutrophication of water supplies.
Hazard for drinking water.
Fish: LC50 > 500 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

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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.

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

EC Directives

Directive 67/548/EEC Danger symbol and designation: No labelling duty according to the EC-Hazardous Materials Regulation.

contains R-phrases: None

contains S-phrases: None

Directive 96/82/EC and
Directive 2003/105/EC
(Seveso II) None

National regulations Germany

Particular labelling of certain preparations: No labelling duty according to the Hazardous Materials Regulation (Germany).

Employment limitations: None

Interference regulations – BimSchV: 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

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

Further regulations, limitations and prohibition regulations: None

16 Other information

Relevant R-Phrases (Number and full text)

For section 2: R 8 Contact with combustible material may cause fire.

R 36 Irritating to eyes.

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Reason for alteration

General update.

Further information:

Data sheet writing department:	Development Special Fertilizers	
Contact persons:	Hans-Paul Klepzig	Telephone: +49 (0)211 5064-250
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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.