

SAFETY DATA SHEET



according to EC Directive 2001/58/EC

Date of issue: 25-07-2007

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Trade name: WUXAL® 39N
Product-No.: 92578

1 Identification of the preparation and Company

Preparation: Nitrogen liquid fertilizer 39N
Description: Aqueous solution of urea and ammoniumnitrat
Use: Fertiliser, 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
Informing department: See chapter 16:

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

2 Composition/Information on Ingredients

Harmful components

<u>Marking</u>	<u>CAS-No.</u>	<u>Content (%)</u>	<u>Danger symbol</u>	<u>R-phrases</u>
Ammonium nitrate	6484-52-2	< 45%	O: Oxidizing	8-9

Additional information:

3 Hazards Identification

Hazards designation: None.
No hazardous product as specified in Directive 67/548/EEC.
Preparation as a liquid harmless, but danger of explosion in the crystalline state if in mixture with inflammable materials.

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.
Unsuitable extinguishing media: Extinguishing substances on an organic basis or with organic additions.
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.
Environmental precautions: Ensure that the product does not reach the ground-water, water bodies or the drainage system.
Methods for cleaning up/taking up: Absorb with inorganic absorption media; do not use saw dust or other organic materials. 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.
Product rests to be cleared away by rinsing with water before starting fire and hot works on containers and devices. Fire and hot works can only be carried out by an

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expert after previous permission in writing or under permanent supervision of an expert. Pumps must be so constituted and used that no hazardous reactions can occur. Pumps without stuffing boxes to be used only. Crystallized product to be dissolved again with plenty of water.

Storage

Stockrooms and containers required:

Storage together with other materials:

Storage class

VbF class:

Further information on storage

conditions:

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

Do not store together with food and luxury food, beverage and animal feed.

12 Liquid product with no fire risk in package with no fire risk.

(National regulation, Germany: VCI-concept)

None

(National regulation, Germany)

Do not store below +5 °C and above +40 °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 Solution

Colour:

Clear, colorless

Odour:

Product-specific

Data relevant to safety

Method:

pH (original state):

Approx. 6 - 8

pH at 13 g/l H₂O and 20°C:

Approx. 7,1

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/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. 1,3

g/cm³

Solubility in water (at 20°C):

To a very high degree

mg/l

10 Stability and Reactivity

Conditions to avoid:

Temperatures above +40°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

The following applies to ammonium nitrate: LD50 (oral, rat): 4820 mg/kg.

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The following applies to potassium nitrate: LD50 (oral, rat): 3750 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.
The following applies to ammonium salts in general:
local irritation symptoms, nausea, vomiting, diarrhoea.
Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, haemolysis.
After uptake of large quantities: diarrhoea, disturbed electrolyte balance.
The following applies to 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

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.
The following applies to ammonium ions in general:
biological effects: fish: toxic as from 0.3 mg/l ;
animal nourishment for fish: toxic as from 0.3 mg/l .
No ecological problems are to be expected when the product is handled and used with due care and attention.
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

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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: According to the Hazardous Materials Regulation, appendix III, No. 6: „Fertilizer with ammonium nitrate, Group D“

16 Other information

Reason for alteration

General update

Further information:

Contact persons: Peter Wehr Telephone: +49 (0)211 5064-241
Dr. Bernhard Kloth +49 (0)211 5064-262

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.