

EC - SAFETY DATA SHEET

according to EC Directive 2001/58/EC

Date of issue: 2007-10-08

revised on:

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Trade name: AA 4042
Product-No.: 0025150

1 Identification of the preparation and Company

Preparation: PK-fertilizer suspension 0-15-16-1Fe
 Description: Aqueous suspension of nutrient salts.
 Use: Fertilizer, preparation for plant nutrition
 Manufacturer/Supplier: T-nou NV,
 Address: Scharlooweg 25,
 Curacao, The Netherlands Antilles
 Informing department: See chapter 16

2 Composition/Information on Ingredients

Harmful components

Marking	CAS-No.	Content (%)	Danger symbol	R-phrases
None				
Additional information:		The fertilizer composition is no hazardous preparation.		

3 Hazards Identification

Hazards designation: None
 Particular hazards: None
 Relevant information: No hazardous product as specified in Directive 67/548/EEC.
 No hazardous product as specified in Directive 96/82/EG.
 Harmful effects/symptoms: No information available.

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: Immediately wash affected skin regions thoroughly with soap and plenty of water.
 after skin contact: 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
 Special risks: The material itself is harmless and not inflammable. Ambient fire may liberate hazardous vapours
 Special equipment to protect firefighters: Do not stay in dangerous zone without suitable protecting clothes and selfcontained breathing apparatus.
 Other information: Contain escaping vapours with water mist.
 Prevent fire-fighting water from entering surface water or groundwater.

6 Accidental Release Measures

Personal precautions: Wear suitable protecting clothes. Avoid product contact and formation of vapours/aerosols. Do not inhale vapours/aerosols. In event of vapours/aerosols wear respiratory protection, safety glasses and gloves.
 Specific hazards: The material itself is harmless and not inflammable. Ambient fire may liberate hazardous vapours.
 Special equipment to protect firefighters: Do not stay in dangerous zone without suitable protecting clothes and selfcontained breathing apparatus.
 Other information: Contain escaping vapours with water mist.
 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.

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7 Handling and Storage

Handling

Advice as to safe handling:

Wear suitable protecting clothes. Avoid product contact and formation of vapours/aerosols. Do not inhale vapours/aerosols. In event of vapours/aerosols wear respiratory protection, safety glasses and gloves.

Remove soiled and soaked clothes and wash hands and face after work (see section 8).

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). It is recommended to design stockrooms so that the product is well-protected from weather factors, solar radiation, heat up, dry up and impurities. Keep containers densely closed and store in a cool dry place. Ensure high standard of housekeeping in the storage area. Do not store in metal containers (corrosion risk). Temperature in stockrooms not below +5°C and above +40°C.

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)

VbF class:

None

(National regulation, Germany)

Further information on storage conditions:

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

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 crystal suspension

Colour:

Olive-green

Odour:

Product-specific

Data relevant to safety

Method:

pH (original state):

Approx. 6,3

pH at 16 g/l H₂O and 20°C:

Approx. 6,5

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. 1,45

g/cm³

Solubility in water (at 20°C):

To a very high degree.

mg/l

10 Stability and Reactivity

Conditions to avoid:

Direct solar radiation, heat up and dry up.

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Materials to avoid:	Temperatures above +40°C.
Hazardous decomposition products:	Strong alkaline materials, strong acid materials.
Thermic decomposition products:	Unknown.
Further information:	If larger quantities of the product are on fire, the formation of nitrous gases is possible. 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.

After uptake of large quantities:

diarrhoea, disturbed electrolyte balance

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 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.

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

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.

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15 Regulatory Information

EC Directives

Directive 67/548/EEC:

Danger symbol and designation: No labelling duty according to the EC-Hazardous Materials Regulation.

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

16 Other information

Relevant R-Phrases (Number and full text)

For section 2:

Reason for alteration

General update.

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.