

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	<u>Composition/Information on Ingredients</u>				
	<u>Harmful components</u>				
	<u>Marking</u>	<u>CAS-No.</u>	<u>Content (%)</u>	<u>Danger symbol</u>	<u>R-phrases</u>
	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 andnot 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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Handling and Storage

Handling

Advice as to safe handling:

Advice to prevent fire and explosion:

Storage

Stockrooms and containers required:

Storage together with other materials:

Storage class:

VbF class:

Further information on storage conditions:

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).

No further requirements.

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.

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

12 Liquid product with no fire risk. (National regulation, Germany: VCI-concept)

None (National regulation, Germany)

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

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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:

Hand protection:

Eye protection:

Skin and body protection:

Preventive and hygiene measures:

Not required. Respiratory protection necessary at vapours/aerosol and wet fog formation.

Rubber or plastic gloves

Safety goggles

Closed working clothes

Do not eat and drink at work. Remove immediately soiled and soaked clothes. Wash hands and face after work.

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Physical and Chemical Properties

Appearance

Form/physical state:

Colour:

Odour:

Data relevant to safety

pH (original state):

pH at 16 g/l H₂O and 20°C:

Change in physical state:

Boiling point/-range:

Melting point/-range:

Flash point:

Inflammability:

Ignition temperature:

Self-ignition:

Fire-promotive properties:

Explosion hazard:

Vapor pressure (at °C):

Density (at 20°C):

Solubility in water (at 20°C):

Aqueous crystal suspension

Olive-green

Product-specific

Approx. 6,3

Approx. 6,5

> 100° C evaporation of water

Not determined °C

Not determined °C

Not applicable °C

Not determined

Not determined °C

The product is not spontaneously inflammable.

The product is not fire-promotive.

The product has no explosion hazardous properties.

Not determined hPa

approx. 1,45 g/cm³

To a very high degree e. mg/l

Method:

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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 <u>Toxicological tests</u> Acute toxicity <u>Further toxicological information</u> After inhalation of aerosols: After skin contact: After eye contact: After swallowing: After uptake of large quantities: <u>Further data</u> 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.	Toxicological data are not available. Toxicological effects are unknown. <u>Property that must be anticipated on the basis with comparable preparations:</u> LD50 (oral, rat): >10.000 mg/kg Slight irritations of the mucous membranes and coughing. Slight irritations. Slight irritations. Nausea and vomiting. diarrhoea, disturbed electrolyte balance
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12	Ecological Information General information: Further ecologic data:	Fertilizer material. Ensure that the product does not reach the ground-water, water bodies or the drainage system. 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.
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13	Disposal Considerations <u>Product</u> Recommendation: According to european waste regulations: Waste Code (EWC-No.): Waste Name: <u>Contaminated packaging</u> Recommendation: Cleaners:	Disposal of product rests in accordance with the official local disposal regulations. 061000 Wastes from the manufacture, formulation, supply and use of nitrogen chemicals, nitrogen chemical processes and fertilizer manufacture. Disposal of contaminated packages in accordance with the local official disposal regulations. Water
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14	Transport Information <u>Surface transport</u> <u>River transport</u> <u>Sea navigation transport</u> <u>Air transport</u> <u>Further information</u>	No hazardous good. No hazardous good. No hazardous good. No hazardous good. 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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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:

Employment limitations:

Interference regulations – BimSchV:

Classification according to VbF:

Technical Regulations Air:

Storage class according to VCI-concept:

Water pollution class:

Further regulations, limitations and prohibition regulations:

No labelling duty according to the Hazardous Materials Regulation (Germany).

None

None

None

None

None

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WGK 1

Liquid product with no fire risk.
- slightly water polluting preparation

(own classification)

None

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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.

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