



Scharloo weg 25, Willemstad  
 Curacao N.A.  
 Phone: (+599-9) 465-9950  
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**Safety data sheet in accordance with EU directive 91/155/EEG-2001/58/EG**

**Atami® Rootbastic**

**Revision date**

**17 June 2010**

**Printing date**

**1 August 2011**

**1. Identification of the substance/preparation and company**

Identification of the substance:

Productname en code Rootbastic  
 Use Agriculture and Horticulture- Soil improvement

Identification company:

Name T-nou NV  
 Address Scharlooweg 25  
 ZIP code  
 Residence Willemstad  
 Country Curacao  
 Phone +5999-4659950  
 Fax +5999-4659949  
 E-mail info@t-nou.com  
 Website www.rootbastic.com  
 Telephone in case of emergency Alarm for doctor (24-hours)  
 +31 (0)30 - 274 88 88 Poisoning Information Centre Utrecht

**2. Composition/information in ingredients**

Chemical characterization Nitrogen (N total) 3%  
 Phosphate total 14%  
 Potassium water soluble 3%

**3. Hazards identification**

Based on our present knowledge no dangers for man and environment can appear with a profession use of the product.

**4. First Aid measures**

General information Remove soiled clothes.  
 After inhalation Remove victim to fresh air, keep him/her calm and warm. Seek medical assistance when the patient has trouble breathing.  
 After ingestion Rinse mouth immediately and drink a lot of water. Consult the doctor in case of persistent trouble.  
 After contact with skin Remove affected clothing and wash all exposed skin area with mild soap and plenty of water. If necessary seek medical help.  
 After contact with eyes Flush with running water for 15 minutes. If irritation on the eyes remains, seek medical assistance.

**5. Fire-fighting measures**

Suitable extinguishing media Water, carbon dioxide, dry extinguishing material and foam.  
 Unsuitable extinguishing media Unknown  
 Special protective equipment Fire fighters should wear self-contained respiratory protective device and self-contained breathing apparatus.  
 Special risks The material itself is harmless and hardly inflammable. Ambient fire may liberate hazardous vapours. If larger quantities of the product are on fire, the information of nitrous gases, ammonia and phosphoric acid gases is possible.  
 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 hardly inflammable as. Ambient fire may liberate hazardous vapours. If larger quantities of the product are on fire, the formation of nitrous gases is possible.  
 Special equipment to protect fire fighters Do not stay in dangerous zone without suitable protecting clothes and self-contained breathing apparatus.  
 Other information Contain escaping vapours with water mist. Prevent fire-fighting water from entering surface water or groundwater.  
 Environment precautions Ensure that the product does not reach the ground water, water bodies or the drainage system.  
 Methods for cleaning/taking up Taking up with absorption media. Disposal of contaminated material as waste according to section 13.

**7. Handling and storage**

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Advice on safe handling

Wear suitable protecting clothing. Avoid product contact and formation of vapours/aerosols wear respiratory protection, safety glasses and gloves.

Advice to prevent fire and explosion  
Stockrooms and containers required

No further requirements.  
Protect the product from impurities 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 de storage area. Temperature in stockrooms not below +5 °C and above +40 °C.

Storage together with other materials  
Storage class  
VbF class  
Further information on storage conditions

Do not store together with food and luxury food, beverage and animal feed.  
12. Liquid product with no fire risk  
None  
Do not below +5 °C and above +40 °C.

**8. Exposure controls/personal protection**

General protective measures

The usual precautionary measures should be adhered to when handling chemicals. Avoid long contact with the skin.

Hygiene measures  
Respiratory protection  
Hand protection  
Eye protection  
Body protection

Wash hands before breaks and at the end of work.  
Not necessary if room is well ventilated.  
Wear protective gloves.  
Wear safety glasses.  
Wear protective work clothing.

**9. Physical and chemical properties**

Appearance:

Form/physical state  
Colour  
Odour  
Data relevant to safety:  
pH (original state)  
pH at 15g/l H<sub>2</sub>O 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  
Vapour pressure (at °C)  
Density (at °C)  
Solubility in water (at °C)

Aqueous crystal suspension  
Black  
Product-specific

Approx 6.5  
Approx 7  
> 100 °C evaporation of water  
Not determined  
Not determined  
Not applicable  
Not determined  
Not determined  
The product is not spontaneously inflammable  
The product is not fire-promotive  
The product had no explosion hazardous properties  
Not determined  
approx 1.20 - 1.26  
To a very high degree e.

**10. Stability and reactivity**

Conditions to avoid  
Materials to avoid  
Hazardous decomposition products  
Thermic decomposition products  
Further information

Direct solar radiation, heat up and dry up. Temperatures above +40° C  
Strong alkaline materials, strong acid materials  
Unknown  
If larger quantities of the product are one 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): > 5.000 mg/kg

Further toxicological information:

After inhalation of aerosols  
After skin contact  
After eye contact  
After swallowing  
After uptake of large quantities

Slight irritations of the mucous membranes and coughing.  
Slight irritations.  
Slight irritations.  
Nausea and vomiting.  
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.



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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.

Further ecologic date

Depending on the concentration, phosphorus and/or nitrogen 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:

Disposal of product rests in accordance with the official local disposal regulations.

Recommendation

According to European waste regulations:

Waste Code (EWC-No)

061000

Waste Name

Wastes from the manufacture, formulation, supply and use of nitrogen chemicals,

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. Regularity information**

EC Directives

Directive 67/548/EEC

Danger symbol and no labelling duty according to the EC-Hazardous Materials designation:

contains R-phrases: None

contains S-phrases: None

Additional warning phrases

None

Directive 96/82/EC and

None

Directive 2003/105/EC (Seveso II)

National regulations Germany Particular labelling of certain preparations

None

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

None

Prohibition regulations

**16. Other information**

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.