



Biological Technical Engineering Office

Huisbergenweg 7-9 Tel: +31-(0)73 – 5223256
5249 JR Fax: +31-(0)73 – 5213259
The Netherlands E-mail: export@atami.com V.A.T.nr: NL 073.593.953.B01

B'CUZZ GROWTH STIMULATOR MATERIAL DATA SHEET

1. IDENTITY / DESCRIPTION

- 1.1 Identity: Growth Stimulator
- 1.2 Manufacturer: Atami
- 1.3 Contact information: See above

2. HAZARDOUS INGREDIENTS IDENTITY INFORMATION

- 2.1 Hazardous components: None, not classified in any hazardous substance class.
- 2.2 Chemical character:

Fe(iron) chelate (micro nutrient) up to 1.5%

3. PHYSICAL / CHEMICAL CHARACTERISTICS

- 3.1 Boiling point: 105 degrees C
- 3.2 Specific gravity: 1.03 g/cm³
- 3.3 Vapor Pressure: 1 Omb
- 3.4 Melting Point: +/- 6 degrees C.
- 3.5 Vapor Density (Air = 1): N/A (Air = 1)
- 3.6 Solubility in water: Yes, 900 g/l
- 3.7 Viscosity: 60m Pa-s (Brookfield)
- 3.8 Form: Liquid
- 3.9 Appearance: Brown
- 3.10 Odor: Rose
- 3.11 pH (at g/L H₂O): pH 7-8

4. FIRE AND EXPLOSION HAZARD DATA

- 4.1 Flash point: None
- 4.2 Flammable limits: None
- 4.3 LEL: None

4.4. UEL: None

FIRE AND EXPLOSION HAZARD DATA

4.5 Extinguishable Media: Not required
4.6 Special Fire Fighting Procedures: None
4.7 Unusual Fire & Explosion Hazards: None
4.8 Ignition temperature: None
4.9 Hazardous decomposition: None
4.10 Hazardous reactions: None

4. REACTIVITY DATA

5.1 Stability: Stable
5.2 Incompatibility: None
5.3 Hazardous Decomposition: None
5.4 Hazardous reactions: Will not occur

5. HEALTH HAZARD DATA

6.1 Route of Entry / Inhalation: None
6.2 Route of Entry / Skin: Wash of with richly water
6.3 Route of Entry / Digestion: Potential for mild diarrhea caused by enzymatic action with bacteria in the stomach
6.4 Health Hazards (Acute & Chronic): Not a hazardous substance
6.5 Carcinogenicity: N / A
6.6 Signs & Symptoms of Exposure: None
6.7 Medical Conditions General
Aggravated by Exposure: Potential for mild diarrhea if taken internally
In concentrate form
6.8 Emergency First Aid Procedures: Wash eye's out with Water for 15 minutes.
If swallowed, drink one quart of water to dilute.

6. PRECAUTION FOR SAFE HANDLING, STORAGE AND USE OF PRODUCT

7.1 Technical Protection Measures: No Special Precautions
6.2 Personal Protection including,
Breathing, Eye and Hands: No Special Precautions
: No Special Precautions
7.4 Recommended storage condition:

Storage temperature should be between 10 degrees C & 40 degrees C. (i) Temperatures over 90 degrees C may result in thermal Decomposition. By-products totally benign, organic matter, water carbon.

Precaution: Dilute with water and wash away. (ii) Change of state may occur at temperatures over 70 degrees C, causing a coagulation of protein.

Precaution: Dilute with water and wash away. Indicators of points

Growth Stimulator Cont'd.

(i) and (ii) will be a separation of products into light liquid on top half and more dense liquid on bottom of container.

7. PRECAUTION FOR SAFE HANDLING, STORAGE AND USE OF PRODUCT

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| 7.5 | Precautions on Handling: | No danger from handling packaged material. |
| 7.5 | Waste Disposal Method
Released or Spoiled Material: | Products is biodegradable. Small spills can be washed away with water.
Large spills if unconta-minated, can be Returned to container, or washed away with water. |

8. CONTROL MEASURES

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| 8.1 | Respiratory Protection: | None required |
| 8.2 | Ventilation: | None required |
| 8.3 | Protective Gloves: | None required |
| 8.4 | Eye Protection: | None required |
| 8.5 | Other Protective Clothing or Handling
Equipment: | None required |
| 8.6 | Work / Hygienic Practicies: | Product is sterile in concentrated form.
Wash hands after contact with soap and water prior to eating or drinking. |