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## Verdanta® VitalSource, 14-4-8

### 1. Identification of the substance / mixture and of the company / undertaking

**Trade name:** Verdanta VitalSource 14-4-8  
**Type of product:** Fertilizer

**Manufacturer:** De Ceuster Meststoffen n.v. (DCM)  
**Address:** Bannerlaan 79  
 B – 2280 Grobbendonk BELGIUM  
**Telephone:** 1.530.750.0150

**Distributor:** BioWorks, Inc.  
**Address:** 100 Rawson Road, Suite 205  
 Victor, New York 14564, USA  
**Telephone:** 1.800.877.9443

**Emergency Phone:** In USA call CHEMTREC 24-hour toll-free hotline at 1.800.424.9300  
 (CHEMTREC) Outside USA, call 1.703.527.3887 (collect calls accepted)

### 2. Hazards identification

**Hazard classification:** Not classified

### 3. Composition / information on ingredients

**Hazardous components:** No hazardous components

### 4. First aid measures

- **Inhalation:** Inhalation not likely.
- **Skin contact:** Wash skin with mild soap and plenty of water.
- **Eye contact:** In case of eye contact, immediately rinse with clean water for 10-15 minutes.
- **Ingestion:** Rinse mouth.  
Seek medical attention immediately and show packaging, label or this sheets.
- **Most important symptoms:** None
- **Immediate medical attention needed:** None

### 5. Fire-fighting measures

- **Suitable extinguishing media:** All extinguishing media can be used.
- **Special procedures:** Exercise caution when fighting any chemical fire.
- **Special protective equipment for fire fighters:** Do not enter fire area without proper protective equipment, including respiratory protection.

### 6. Accidental release measures

- **Personal precautions, protective equipment, and emergency procedures:** Use good judgment to avoid exposures and releases.
- **Methods and materials for containment and cleaning up:** Clean up with brush, shovel or vacuum cleaner.  
Dispose in a safe manner in accordance with local / national regulations.

### 7. Handling and storage

- **Handling:** Do not eat or drink the product. Do not use as animal feed.  
Do not eat, drink or smoke while using this product.  
Wash and dry hands and other exposed areas with mild soap and plenty of water before eating, drinking or smoking and when leaving work.
- **Storage:** Keep away from food, drink and animal feeding stuffs.  
Store in dry, cool, well-ventilated area.  
Keep out of reach of children and pets.  
Store in original packing. Close packing tightly after use.

### 8. Exposure controls / personal protection

- **Exposure Limits:** None
- **Respiratory protection:** Respiratory protection is not required under normal use.
- **Skin protection:** Not required.
- **Eye protection:** Eye protection is not required under normal use.

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- **Hand protection:** Not required.
- **Ingestion:** Do not eat or drink the product. Do not use as animal feed.  
When using, do not eat, drink or smoke.

### 9. Physical and chemical properties

- **Physical state:** MINIGRAN = microgranules with dimensions between 800 and 2500 microns, of which at least 80 % between 1000 and 2000 microns.
- **Color:** Brown.
- **Odor:** Characteristic.
- **Odor threshold:** Not determined.
- **pH:** Not determined.
- **Melting point:** Not determined.
- **Boiling point:** Not determined.
- **Flash point:** Not determined.
- **Evaporation rate:** Not determined.
- **Flammability:** Not determined.
- **Flammability limits:** Not determined.
- **Vapor pressure:** Not determined.
- **Vapor density:** Not determined.
- **Relative density:** 560 - 700 g/L
- **Solubility:** Not determined.
- **Partition coefficient:** Not determined.
- **Auto-ignition temperature:** Not determined.
- **Decomposition temp.:** Not determined.
- **Viscosity:** Not determined.

### 10. Stability and reactivity

- **Reactivity:** Stable under normal conditions
- **Stability:** Stable under normal conditions
- **Possibility of hazardous reactions:** None under normal conditions.
- **Conditions to avoid:** None known.
- **Incompatible materials:** None known.
- **Hazardous decomposition products:** In case of fire carbon oxides.

### 11. Toxicological information

- **Other:** Non –carcinogenic effect, non-mutagenic, non-tetratogenic.

### 12. Ecological information

- **Biodegradation (%):** Fully degrades into CO<sub>2</sub>, water and minerals that are considered plant nutrients.
- **Environmental precautions:** Prevent entry into public waters, rivers and lakes to avoid oxygen deficiency and eutrofication.

### 13. Disposal considerations

- General:** Do not use the packaging for other purposes.  
Dispose in a safe manner in accordance with local / national regulations.

### 14. Transport information

- General information:** Not regulated.  
Not considered as a hazardous product according to national and international transport regulations.

### 15. Regulatory information

- Symbol(s):** None.  
**R Phrase(s):** None.

### 16. Other information

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