

MATERIAL SAFETY DATA SHEET



Orgamino - N13

PLANT BASED NITROGEN FOR ORGANIC SYSTEMS

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1. Identification of the product and the Company

Product name : **Orgamino N13**
Product type : Granulated amino acid vinasse
Supplier : **Fertiliser Ltd**
Contact number for technical information : See above heading

2. Composition and Process

The condensed by-product of the manufacture of amino acids by fermentation from sugar cane extracts.

3. Hazards Identification

- Inhalation : None at ambient temperatures
- Skin contact : None under normal ambient conditions
- Eye contact : None under normal conditions
- Ingestion : Treat according to the symptoms presented, if any

4. First Aid Measures

- Skin: : May cause slight irritation, wash area with soap and water
- Eyes: : May cause irritation, flood eye with water

5. Fire-fighting Measures

Not applicable, not combustible when spilled or transported

6. Accidental Release Measures

Personal precautions : None under normal conditions.
Environmental precautions : Biodegradable, increases BOD and COD – see **12**.
After spillage/leakage : Contain spills with sand and shovel into salvage container for disposal. Hose down small spillages or residue (slippery when wet) into sewers serviced by wastewater plant with plenty of water. Prevent direct discharge into watercourses or lakes due to high nutrient availability. If this does occur, inform Local Authorities at once.

7. Handling and Storage

Handling : Avoid contact with skin, eyes and clothing. Wear recommended PPE.
Storage : store in ventilated tanks (mild steel, stainless steel, polyethylene, PVC) at ambient temperatures.

8. Exposure controls/personal protection

Personal protection : None under normal conditions
- Respiratory protection : Not applicable
- Hand protection : Not required, butyl rubber gloves advised
- Eye protection : Safety glasses or goggles may be desirable when emptying containers or drums.

9. Physical and chemical properties

Physical state at 25°C : Granular
Colour : Very dark brown
Odour : Very weak smell
pH value as is : About 6.5
Initial boiling point (°C) : >100
Flammability, Flash point (°C) : Not applicable
Explosion limits (lower) (kg/ m³) : Not applicable
Relative Density at 20°C (kg/l) : About 1.08
Viscosity (cps) at 20°C : N/a
Solubility in water (% weight) : Forms infinite aqueous solution
Vapour pressure (hPa) : Not applicable

10. Stability and reactivity

Hazardous decomposition products : Burning can produce CO₂ and water, ammonium compounds
Materials to avoid : Strong acids and alkalis, oxidising agents

11. Toxicological information

Acute toxicity : None, non toxic
Chronic toxicity : None

12. Ecological information

No significant environmental hazard or adverse effect from human or animal exposure resulting from accidental release of this material is anticipated. Its components are used in feed and there is no LD₅₀.

- COD (mgO₂/g ds) : About 350
- BOD (mgO₂/g ds) : About 300
- Ecotoxicity : Due to its medium BOD, accidental discharge of large quantities into rivers or lakes will cause temporary algal growth ("bloom") and dissolved oxygen reduction with possible serious or deleterious effects on fish.

13. Disposal considerations

Disposal : See Section 6

14. Transport information

No special requirements or precautions applicable

15. Regulatory information

Feed legislation : Complies with the Feeding Stuffs Regulations 2005

16. Other information

Symbol(s) : None
R and or S phrases : None

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