

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the product: Aqueous solution of plant nutrients.
Trade name: 4-12-12 Trace Elements
Use: Horticultural fertiliser
Company identification: **GreenBest Ltd**, Unit 2, The Marsh, Henstridge, Somerset BA8 0TF
Tel: 44 (0) 1963 364788 Fax: 44 (0) 1963 364789

2. COMPOSITION/INFORMATION ON INGREDIENTS.

Liquid fertiliser formulations contain combinations of the following:
Nitrogen: urea, ammonium sulphate
Phosphate: monoammonium phosphate
Potash: potassium chloride, potassium carbonate
Other nutrients: trace element package, adjuvants

3. HAZARDS IDENTIFICATION

Classification: Formulations are not classified as hazardous
- Inhalation: Low toxicity. May be slightly irritant locally.
- Skin contact: Low toxicity. May be slightly irritant locally.
- Eye contact: Possible irritation and inflammation.
- Ingestion: Low toxicity. Unlikely to cause a problem.

4. FIRST AID MEASURES

- Inhalation: Remove patient from the area.
- Skin contact: Remove contaminated clothing. Wash with soap and water to remove contamination.
- Eye contact: Irrigate thoroughly with water until irritation subsides. Seek medical advice if irritation persists.
- Ingestion: Wash out mouth with water. Seek medical advice.

5. FIRE-FIGHTING MEASURES

Flammable class: Non-flammable.
Prevention: Drench packs with water if exposed to fire.
Extinguishing media: Use CO₂ or water spray. Do not smother with foam or sand.
Hazards: May give off fumes if heated to decomposition. Do not breathe fumes.
Special procedures: Wear self-contained breathing apparatus in confined spaces.

6. ACCIDENTAL RELEASE MEASURES

After spillage and/or leakage: Contain spillages with absorbent material e.g. sawdust or sand. Place in labelled leak proof containers or plastic bags for disposal. Avoid pollution of sewers and watercourses.

7. HANDLING AND STORAGE

Storage: Packs should be stored closed. Avoid prolonged contact with ferrous metals.
Handling: Handle in accordance with good hygiene practice. Keep away from foodstuffs.
Packaging: HDPE containers

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Respiratory protection:
- Hand protection: Nitrile gloves may be worn for personal hygiene purposes.
- Skin protection: Wear coverall and rubber boots when dealing with bulk spillages.
- Eye protection: Face shield (BS2092 G1) where there is a danger of splashing.
- Engineering controls: Ensure adequate ventilation in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Brown/blue
Odour:	Possible slight ammonia
pH value:	5.8-6.5
Initial boiling point (°C):	Not available
Density:	1100 – 1400 kg/m ³
Flash point (°C):	N/A
Auto-ignition temperature (°C):	N/A

10. STABILITY AND REACTIVITY

Stability:	Product has long-term stability under normal conditions.
Hazardous decomposition:	May give off ammonia, isocyanic acid, nitrogen oxides, sulphur oxides, chlorine when heated above 130°C.
Hazardous reactions:	Avoid mixing with strong oxidising agents, strong acids, strong bases, hypochlorites, aldehydes, allyl chloride.
Hazardous properties:	Mildly corrosive if left in contact with ferrous metals.

11. TOXICOLOGICAL INFORMATION

General toxicity:	Products not classified. Unlikely to be hazardous under normal conditions of use.
Rat oral LD50 (mg/kg):	Not known
Rabbit dermal LD50 (mg/kg):	Not known
Rat inhalation LC50 (mg/l/4h)	Not known

12. ECOLOGICAL INFORMATION

Persistence and degradability:	Components are biodegradable. Avoid contamination of watercourses..
Toxicity	Contains nutrients essential for plant growth.

13. DISPOSAL CONSIDERATION

Product	Use Local Authority or licensed waste disposal contractor.
Containers	Rinse out and recycle.

14. TRANSPORT INFORMATION

Land Transport - ADR/RID	Not classified as hazardous.
Sea Transport - IMO-IMDG	Not classified as hazardous.
Air transport - IATA	Not classified as hazardous.

15. REGULATORY INFORMATION

Label information:	Essentially non-hazardous and non-toxic but take sensible precautions. Avoid eye contact. Prolonged contact with the skin may cause dryness. Wear suitable gloves and face protection when handling this material. Remove contaminated clothing immediately. Wash hands and exposed skin before eating. Could be harmful if swallowed. Keep out of reach of children.
Regulations:	Product not classified under the Chemicals (Hazard Information and Packages for Supply) Regulations (CHIPS 3).
R Phrase(s):	Not required.
S Phrase(s):	Not required

16. OTHER INFORMATION

Further information:	The information contained in this leaflet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up-to-date information at the time of publication. Providing our products are handled and used in accordance with the label instructions, they should offer no hazard to health or safety.
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