



Indigrow Ltd, Lower Farm Barns, Wasing, Aldermaston, Berkshire, RG7 4NG, UK

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Material Safety Data Sheet - Issue 1 02/07 GCL

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product and Brand Name	ORBIT N
Supplier	Indigrow Ltd
Address	Lower Farm Barns, Wasing, Aldermaston, Berkshire. RG7 4 NG
Contact Number	Tel: +44 (0) 118 9710995 Fax: +44 (0) 118 971 0990
Emergency Number	Tel: +44 (0) 7725 962 366

2. COMPOSITION – INFORMATION ON INGREDIENTS

Chemical name	EU No.	CAS No.	Conc. %	Hazard	Risk
Foliar fertiliser containing NPK with added trace elements in aqueous solution.					

3. HAZARD IDENTIFICATION

FIRE	Non-flammable.
PHYSICAL/CHEMICAL	A non volatile aqueous solution which reacts with strong oxidising agents and acids.
HEALTH	Irritating to eyes and to the skin with prolonged or repeated exposure.
ENVIRONMENT	Low - biodegradable.

4. FIRST AID MEASURES

EYES	Contact with eyes may cause irritation. Keeping eyelids open, irrigate well with copious amounts of eye wash solution or clean water, without delay, for 15 minutes minimum. Obtain medical attention if symptoms persist.
SKIN	Contact with skin may cause moderate irritation. Remove contaminated clothing, wash skin immediately with soap and rinse with copious amounts of water. Obtain medical attention if irritation occurs and persists.
INGESTION	Ingestion will cause burning of the throat. May cause nausea and vomiting. Do not induce vomiting. Wash out mouth with water and give plenty of water to drink. If vomiting occurs, place patient in the recovery position. Keep patient at rest and obtain medical attention at once.
INHALATION	Inhalation of concentrated vapour may cause irritation of nose and respiratory system. May cause dizziness and headache. Remove to fresh air. If symptoms persist obtain medical attention.

5. FIRE FIGHTING MEASURES

EXPOSURE HAZARD	If involved in a fire, although non-flammable, it will emit obnoxious and toxic fumes containing Ammonia, Hydrogen chloride, ammonium chloride and chlorine. Fire fighting personnel should wear standard chemical-resistant protective suit and self-contained breathing apparatus.
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5. FIRE FIGHTING MEASURES (Continued)

SUITABLE EXTINGUISHERS Fight fire with foam, water spray, carbon dioxide or dry powder, as suitable for other, combustible, materials involved .

OTHER ADVICE If without risk, remove unopened packages from exposure to fire. Otherwise spray unopened containers with water to keep cool.

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS Prevent large spillages from entering drains or sewers (inform local water authority if this occurs).

OTHER PRECAUTIONS Cordon off area and evacuate personnel if large spillage. Keep people and animals away.

CLEAN-UP METHODS Dilute small spillages and flush to drain with copious amounts of water. Absorb and contain larger spillages with sand, earth or proprietary absorbent and dispose of safely.

7. HANDLING AND STORAGE

HANDLING No special precautions are necessary if unopened packs are handled with care. When handling in a usage context, wear full overalls, PVC or rubber gloves and boots. Wash hands thoroughly before eating, drinking or smoking and after work.

STORAGE Keep sealed in original containers. Store in frost-free conditions above 2°C. Store away from acids and oxidizing agents

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS Apply COSHH assessment according to standard (OES) EH 40/94.

RESPIRATORY Not normally required.

HANDS AND FEET Wear PVC or rubber gloves or gauntlets and boots.

EYES AND FACE Wear face shield or goggles to BS 2092.

SKIN Wear long sleeved overalls.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Green, slightly viscous aqueous solution

ODOUR Slight Ammoniacal

MELTING POINT N/A

FREEZING POINT -2°C

DENSITY (g/ml) 1.17 @ 20°C

SOLUBILITY IN WATER Completely miscible

pH (concentrate) 7.4

10. STABILITY AND REACTIVITY

STABILITY Stable in normal ambient conditions. Avoid frost

MATERIALS TO AVOID Store away from oxidizing agents and acids. Avoid materials which react with water.

HAZARDOUS

DECOMPOSITION PRODUCTS Ammonia, Hydrogen chloride, ammonium chloride and chlorine



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11. TOXOLOGICAL INFORMATION

ACUTE TOXICITY	No information available. Main effect will be the irritant effects of trace amounts of ammonia.
ACUTE EXPOSURE EFFECTS	
INHALATION	Mildly irritating to the respiratory system
EYES	Moderate eye irritation
SKIN	Moderate skin irritation
INGESTION	Possible nausea and vomiting

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY	Low hazard
DEGRADATION	
SOIL DT ₅₀ (days)	No data, but rapidly degrades in soil.

13. DISPOSAL CONSIDERATION

DISPOSAL METHODS : Product requires controlled waste disposal in accordance with Control of Pollution Act 1974 and Special Waste Regulations 1980.

PACKAGING : Do not re-use packaging for any other purpose. Dispose of used packaging in accordance with Special Waste Regulations 1980.

14. TRANSPORT INFORMATION

TRANSPORT : Material is not classified as hazardous or dangerous for transport according to current international regulations.

15. REGULATORY INFORMATION

Labeling EEC Regulations : Material is not classified

16. OTHER INFORMATION

VALIDITY

The information contained herein relates only to the designated formulation and may not be valid if product is used in combination with other substances. The information is to the best of our knowledge, belief and understanding, true, accurate and reliable at the date of issue. However, the information may neither be exhaustive or complete, and no warranty, guarantee or liability concerning the accuracy or completeness of the information is expressed or implied. It is the user's risk and sole responsibility to verify and satisfy their own criteria and duty of care concerning the validity of the information in relation to their application of the product