

PRODUCT HEALTH & SAFETY DATA

LIQUID IRONS

– *including formulations with added nutrients and biostimulants*

(Components are tailored to individual formulations but all share the same COSHH recommendations)

1.0 DESCRIPTION

1.1 **Commercial characterisation:** Horticultural liquid fertiliser

1.2 **Form:** Aqueous solution

1.4 **Components:**

Nitrogen: ammonium sulphate

Other nutrients: ferric chloride, ferrous sulphate, manganese sulphate, citric acid, yucca extract

Biostimulants: seaweed extract, humic acid

2.0 PHYSICAL AND SAFETY DATA

- 2.1 Change in physical state: Pour point n/a
- 2.2 Bulk density: 1300 kg/m³ approx
- 2.3 Vapour pressure: n/a
- 2.4 Viscosity: n/a
- 2.5 Solubility in water: Completely soluble components
- 2.6 pH value: 2.0 – 5.0
- 2.7 Flash point: Non flammable
- 2.8 Ignition temperature: Not known
- 2.9 Explosion limits: Lower: n/a Upper: n/a
- 2.10 Thermal decomposition:
- 2.11 Hazardous decomposition products: Emit toxic vapours if heated to decomposition
- 2.12 Hazardous reactions: With strong oxidising agents, hypochlorites

3.0 **TRANSPORT:** GGVSee/IMDG code: UN No: ICAO/IATA-DGR:
GGVE/GGVS: RID/ADR: ADNR:
Other information: Not listed in any of the above.

4.0 **REGULATIONS:** Classification, Packaging and labelling of Dangerous Substances Regulations 1984

IRRITANT Xi
R36/38 Irritating to eyes and skin
S24/S25 Avoid contact with eyes
S36/S37/S39 Wear suitable gloves and eye/face protection

5.0 **PROTECTIVE MEASURES, STORAGE AND HANDLING**

- 5.1 Technical storage measures: Avoid prolonged contact with metals. Keep frost free in storage.
- 5.2 Personal protective equipment: Respiratory protection:
Hand Protection: Rubber gloves
Eye protection: Safety glasses
Other: Overalls to prevent skin contact
- 5.3 Industrial hygiene: Avoid prolonged skin contact. Wash hands before eating.
- 5.4 Fire and explosion protection: No special precautions required.
- 5.5 Disposal: In accordance with Local Authority/Environment Agency regulations.
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6.0 **MEASURES IN CASE OF ACCIDENTS AND FIRE**

- 6.1 After spillage/leakage: Contain spillages with sand.
Wet residues are slippery. Wash floor to remove traces.
- 6.2 Extinguishing media: CO₂, water spray. Do not smother with foam or sand.
- 6.3 Fire-fighting precautions: Respiratory and eye protection for personnel
- 6.4 First Aid: Skin contact: Wash to remove contamination.
Eye contact: Irrigate thoroughly with water for 10 minutes. Seek medical advice if irritation persists
Ingestion: Essentially non-toxic in small quantities; give water to drink. If large quantities ingested, induce vomiting and seek medical advice.
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- 7.0 Information on toxicity: Excess ingestion results in iron-rich blood system.
May cause slight irritation to eyes and skin.
Inhalation of mist may cause respiratory irritation.
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8.0 Information on ecological effects Avoid pollution of watercourses.

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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