

SAFETY DATA SHEET

FERBON OF 200 T.E. "PLUS" ZINC/MANGANESE

Section 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

IDENTIFICATION

Product Name: FERBON OF 200 T.E. "PLUS" ZINC/MANGANESE

Other Names:

USE: SPRAYED IN DILUTE FORM AS TRACE ELEMENT SUPPLEMENT IN AGRICULTURE

COMPANY DETAILS:

Company Name: Interstate Energy Group Pty Ltd

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Section 2. HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION:

NON HAZARDOUS: Not classified as hazardous according to NOHSC criteria.
NON DANGEROUS: Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road and rail.
RISK PHASE(S): **R36/37/38.** May be irritating to eyes, skin and respiratory system.
SAFETY PHASE(S): **S25:** Avoid contact with eyes.
S36/37/39. Wear suitable protective clothing, gloves, eye and face protection.
Poison Schedule: None allocated.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity of Ingredients	CAS No.
Humic Acid, Potassium Salt	68514-28-3
Manganese Sulphate	7785-87-7
Zinc Sulphate	7733-02-0
Water	7732-18-5

Section 4. FIRST AID MEASURES

Swallowed: If victim is conscious and alert give 2-4 cupfuls of milk and water. Never give anything by mouth to an unconscious person. Seek medical attention.

Eye: Immediately rinse affected eye(s) with plenty of water, holding eyelids open for 15 minutes. If irritation persists see a doctor or transport to hospital.

Skin: Wash areas with soap and water. Seek medical attention for any persistent skin symptoms.

Inhaled: Remove affected person from exposure – Avoid becoming a casualty. If irritation persists see a doctor or transport to hospital.

First Aid Facility: Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor: Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

Fire/Explosion Hazard: Non flammable or combustible liquid

Hazardous Decomposition Products: Material will not burn or explode. Manganese sulphate can react with strong acids, strong oxidizing agents and powdered metals. May react violently with Hydrogen Peroxide, hazardous decomposition Products include carbon dioxide, sulphur dioxide(SOX), including sulphur oxide and sulphur dioxide, oxides of manganese.

Firefighting Procedures: Fire fighters to wear Self-contained breathing apparatus(SCBA) in confined spaces, or if oxygen deficient atmospheres exist or if exposure to products of decomposition is suspected with full protective equipment.

Extinguishing Media: Use extinguishing media suitable for surrounding fire situation.

Stability: Stable, under normal conditions of use.

Issued by: IEG

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Section 6 - ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Follow all safety precautions. Contain – prevent runoff into drains and waterways. Collect and seal in properly labelled containers

Section 7 - HANDLING and STORAGE

Storage: Store away from food stuffs. Do not store with other chemical agents. Store in a cool, dry area. Reseal container when not in use.

Precautions for safe handling: Wear suitable protective clothing. Avoid skin and eye contact and breathing in vapour, mists and aerosols.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards: Long-term exposure at or below 0.5 to 1 mg/m³ should afford protection for individuals who may be susceptible to the neurological effects of prolonged exposure to manganese. Accordingly, the Exposure Standards Working Group recommends an eight-hour exposure standard of 1mg/m³ for manganese and inorganic compounds. Although there is acknowledgement that the particle size distribution, type of manganese compound & oxidation state may play an important role in the development of both neurological and respiratory effects of manganese, there is insufficient evidence to distinguish confidently between manganese fume, dust and other inorganic manganese compounds. For this reason it is recommended that a single exposure standard be applied for all inorganic manganese compounds, measured as inspirable dust (as Mn). Provided that the 8-hour TWA exposure standard is not exceeded, short-term exposures should not exceed 3 times the TWA exposure standard for more than a total of 30 minutes per 8-hour working day; and under no circumstances should the short-term value exceed 5 times the exposure standard (the general exclusion limit approach).

Engineering Controls: Use in a well-ventilated area. Avoid generating and inhaling mists or vapours.

Personal Protection: If large quantities of this product are being handled, for example, in industrial environments, then it is recommended that:
CLOTHING: PVC OR Nitrile Apron where clothing is likely to be contaminated.
GLOVES: PVC or Nitrile recommended.
EYES: Chemical goggles or faceshield.
RESPIRATORY PROTECTION: Avoid breathing of mists or vapours. Select and use respirators in accordance with AS/NZS 1715. When high vapour or mist levels are suspected then the use of the following is recommended: A half face piece respiratory with organic vapour (Type A) and dust/mist (Type P1) canister type is recommended. Filter capacity and respiratory type depends on exposure levels.
If entering space where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) complying with AS 1715 is recommended.

Section 9 - PHYSICAL and CHEMICAL PROPERTIES

Appearance: Liquid – Dark brown in concentrated state with mild sulphur odour. Light brown when diluted 1:150
Boiling/Melting Point: N/A
Vapour Pressure: N/A
Specific Gravity: 1.3
Flash Point: Not Relevant
Flammability Limits: Not applicable
Solubility in Water: Totally miscible with water

Section 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

Conditions to avoid: Store away from food stuffs. Do not store with other chemical agents. Strong oxidising agents, Strong acids, and strong alkalis.

Hazardous Decomposition Products: Carbon dioxide, sulphur dioxide (SOX), including sulphur oxide and sulphur dioxide, oxides of manganese.

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Section 11 - TOXICOLOGICAL INFORMATION

Swallowed: Data suggests that the product should be considered as harmful by ingestion. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Eye: The concentrate may cause irritation to the eyes.

Skin: The concentrate may cause irritation to the skin. The product when used in diluted concentrations is not anticipated to cause skin irritation.

Inhaled: The concentrate may cause respiratory tract irritation. When the product is used in diluted concentrations it is not anticipated any irritation to the respiratory system will occur.

Chronic: Chronic inhalation or ingestion may result in nonspecific neurological symptoms of headache, apathy, and weakness of legs, followed by psychosis, and finally appearing with symptoms similar to those of Parkinson's disease. In its acute form, manganese poisoning has an effect characteristic of other heavy metals, leading to "metal fume fever" if dust or fume is inhaled in sufficient quantity. An airborne concentration thought to be immediately dangerous to life or health is in the order of 10,000mg/m³ (as Manganese).

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Avoid contaminating waterways.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods: Clean up personnel should wear protective clothing including breathing apparatus in confined areas. Collect spilled material and place in suitable containers. Hold for reuse or disposal. Wash spill site with soapy water after initial pickup is complete. Dispose in accordance with all Local, State and Federal regulations at an approved waste disposal facility.

Section 14 - TRANSPORT INFORMATION

No special requirements or regulations apply.

UN Number: None allocated
DG Class: None allocated
Hazchem Code: None allocated

Recommended Packaging: UN 3111/Y1.6/200/90 AUS 1329 (DG Type) (Thick walled type)

Section 15 - REGULATORY INFORMATION

Not applicable.

Section 16 - OTHER INFORMATION

This MSDS summarises to the best of our knowledge the health and safety hazard information on the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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