

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Premium Iron-EDDHA 6% (4.8% o-o)**
 Item Code:
 Product Use: Fertiliser
 Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticulture Ltd
 Address: 10 Firth Street
 Drury, 2113

Telephone: +64 9 294 8453
 Fax Number: +64 9 294 7272

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 12 June 2024

Section 2. Hazards Identification

This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Acetic acid, oxo-, sodium salt, reaction products with ethylenediamine and phenol, Iron sodium salts	6% (4.8% o-o)	84539-55-9
Non hazardous	To bal	

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

If on Skin: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.

If Swallowed: Rinse mouth. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.

If Inhaled: Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position

and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: None known.

Treatment: In case of doubt or when symptoms of discomfort persist, seek medical attention immediately. Do not administer anything by mouth to unconscious persons. Do not induce vomiting.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable.
Hazards from combustion products	The product doesn't let off toxic gases.
Suitable Extinguishing media	Use suitable extinction means as: water, dry powder, carbon dioxide, foam.
Precautions for firefighters and special protective clothing	Depending on the size of the fire, personal protective equipment, self-contained breathing apparatus, gloves, goggles or face shields and boots may be required.
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Ensure an adequate ventilation. Avoid dust breathe. Avoid contact with eye and skin.

Avoid that the product reaches the surface water or the sewer net. Avoid soil contamination.

Collect by sweeping up, and without raising dust, clean up the remainder with inert absorbent material (e.g., earth, sand, diatomaceous earth, or some non-combustible absorbent). Collect the spillage in suitable containers for disposal. Label such containers and dispose of in accordance with local regulations. If spillage or uncontrolled discharge into watercourses (or public waters) occurs, inform local authorities immediately. Dispose as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Avoid contact with eyes, skin, and clothes.
- Avoid dust formation.
- Do not smoke, drink or eat while handling the product.
- Keep the product in its original packing.
- Remove clothing immediately if product gets inside.
- Wash skin thoroughly with non-abrasive soap and put on clean clothing.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep the packing closed in a dry, fresh and well-ventilated place.
- Keep away of non-authorized persons.
- Keep away of food, drinks, and animal feed.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA

STEL

Substance**ppm mg/m³****ppm mg/m³**

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14TH EDITION.

DNELs:

DNEL for workers:

0,8 mg/kg of body weight / day (skin exposition)

1,8 mg/m³ (inhalation)

DNEL for population in general:

0,417 mg/kg of body weight / day (skin exposition)

0,435 mg/m³ (inhalation)

0,125 mg/kg of body weight / day (oral exposition)

Predicted non effect concentration (PNEC):

PNEC water (water): 2,40 mg/L

PNEC water (sea water): 0,24 mg/L

PNEC water (intermittent emissions): 1,20 mg/L

PNEC sediment (water): 1,90 mg/kg

PNEC sediment (sea water): 0,19 mg/kg

PNEC soil: 1,60 mg/kg

PNEC residual water treatment plant: 45,00 mg/L.

PNEC oral: 1,1 mg/kg of food

Engineering Controls

Ensure adequate ventilation. Use only in area with adequate extraction and ventilation.

Personal Protection Equipment

Eyes	Protectives glasses with lateral closing as described in norm EN 166.
Hands and Skin	Protective gloves fulfilling norm EN 374. Rubber gloves. While handling the product, use adequate protection clothes.
Respiratory	In case on insufficient ventilation, use adequate respiratory (breathing) equipment. Respirator with filter type A.
General	Handle the product according to the GP of industrial hygiene and safety. Clean hands before to stop and immediately after to handle the product. Do not eat, drink, or smoke when handling the product.

Section 9 Physical and Chemical Properties

Appearance	Solid
Colour	Black - reddish
Odour	Little intense, characteristic
Odour Threshold	Not available
pH	7.5 – 9.5
Boiling Point	Not available
Melting Point	It decomposes without melting, at a temperature higher than 200°C
Freezing Point	Not available
Flash Point	Not available
Flammability	Non Flammable

Upper and Lower Explosive Limits	Not available
Vapour Pressure	< 1E-6hPa a 25°C
Vapour Density	Not available
Apparent Density	450 – 650 Kg/m ³
Solubilities	Theoretical 120 g/l ; Practical (CoA) 60 g/l
Partition Coefficient:	< -4,2 a 23°C
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristic	micro granulated powder, free of refined

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Hazardous Reactions	No data available.
Conditions to Avoid	Keep away from flame, hot surfaces and ignition sources.
Incompatible Materials	Avoid oxidizing agents.
Hazardous Decomposition Products	By pyrolysis toxic fumes as carbon oxides (CO, CO ₂) and nitrogen oxides (NO _x) can be produced.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. LD50 (rat) = >2000 mg/kg
Dermal	Not applicable. LD50 (rat) = >2000 mg/kg
Inhalation	Not applicable. LC50 (rat) = >4200 mg/m ³ air
Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

Aquatic Toxicity:

- The product is not toxic for fish (tested according OECD 203 Guideline and the method EU C.1):
CL50 > 120 mg/L NOEC ≥ 120 mg/L
 - The product is not toxic for aquatic invertebrates (tested according to OECD 202 Guideline and the method EU C.2):
CL50 > 120 mg/L
 - The product is not toxic for aquatic algae (tested according OECD 201 Guideline and the method EU C.3):
CL50 > 294 mg/L NOEC 8.2 mg/L
 - The product is not toxic for aquatic microorganisms (tested according OECD 209 Guideline and the method EU C.11):
CL50 > 1000 mg/L NOEC 450 mg/L
- Toxicity on sediments: No data available.

Terrestrial Toxicity: - The product is not toxic for birds:

Persistence and degradability	The product is biodegradable but not readily biodegradable.
Bioaccumulation	The product is not bioaccumulable (Log Pow < -4,2).
Mobility in Soil	No data available.
Other adverse effects	No data available.

Section 13. Disposal Considerations

Disposal Method: Triple rinse and dispose according to Local Regulations.

Disposal methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021

Section 15 Regulatory Information

This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

Section 16 Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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