

## Section 1 – Identification of the Material and Supplier

Product:	MP Enrich	
Product Use:	Liquid biological fertilizer and soil conditioner	
Company Details:	EMNZ (Naturefarm) Ltd, 16 Maces Road Bromley Christchurch 8062	
E-mail Address:	<a href="mailto:Paul@emnz.co.nz">Paul@emnz.co.nz</a>	
Telephone numbers:	0800 366 948 (03)374 6323	
Distributor:	Living Turf NZ 24d Allright place Mt Wellington Auckland 1060	
Telephone number:	0800 428 268	
Emergency Telephone	National Poisons Centre	0800 POISON (0800 764 766)

## Section 2 – Hazards Identification



Classified as a hazardous substance according to the criteria in the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. Reprinted 2017

Not classified as dangerous goods for transport according to NZS 5433:2020 Transport of Dangerous Goods on Land.

**Skin Irritation**  
**STOT Repeated Exposure**

Category 2    **Eye Irritation**  
Category 1

Category 2

**Signal Word:**                    **DANGER**

**Hazard Statements:**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H372	Causes damage to organs through prolonged or repeated exposure.

**Prevention Statements:**

P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe vapours or spray.
P264	Wash hands with soap and water thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear eye/face protection.

**Response Statements:**

P101	If medical advice is needed, have product container or label at hand.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice if you feel unwell.
P321	Specific treatment (see first aid instructions on this label)
P332+P313	If skin irritation occurs: Get medical advice.
P337+P313	If eye irritation persists: Get medical advice.
P362+P364	Take off contaminated clothing and wash it before reuse.

**Storage Statements:**

None

**Disposal Statements:**

P501 Disposal of contents/containers should be made in accordance with all applicable local, regional and national laws and regulations.

**Section 3 – Composition/Information on ingredients**

Ingredient	CAS Number	Concentration
Ferrous Sulphate Monohydrate	7720-78-7	10 – 30%
Manganese Sulphate Monohydrate	10034-96-5	10 – 30%
Citric Acid Anhydrous	77-92-9	< 10%
Non-hazardous ingredients	-	Balance

**Section 4 – First aid measures**

**General Advice:**

Treat according to person's condition and specific of exposure. Treat symptomatically. For further information the medical practitioner should refer to the phone numbers in Section 1.

- Inhalation:** No first aid should be needed.
- Ingestion:** Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting, immediately contact the NZ National Poison Centre (0800 764 766) or a doctor.
- Skin Contact:** Wash skin well with soap and water.
- Eye Contact:** Immediately flush with water for 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists; seek medical advice.

**Section 5 – Fire-fighting measures**

- Extinguishing Media:** Use extinguishing agent suitable for surrounding fire.
- Hazardous combustion products:** Oxides of carbon, sulphur and nitrogen. Ammonia
- Precautions for Firefighters:** Cool containing vessels with flooding quantities of water until well after fire is out. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids.

**Section 6 – Accidental release measures**

- Spills and Disposal:** In the event of a major spill, prevent spillage from entering drains or watercourses. Stop leak if safe to do so and contain spill using vermiculite or mineral spill absorbents. Sweep up and collect recoverable product into appropriately labelled containers for recycling or salvage and dispose of promptly. Consider vacuuming area if appropriate. Recycle containers wherever possible after careful cleaning. After spills, wash affected area preventing run off from entering drains. If a significant quantity of material enters drain, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulation prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

## Section 7 – Handling and Storage

<b>Precautions for safe handling:</b>	Keep exposure to this product to a minimum and minimize the quantities kept in work area. Check Section 8 of this SDS for details of personal protective measures and make sure that those measures are followed. The measures detailed below under 'Storage' should be followed during handling to minimize risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.
<b>Conditions for safe storage:</b>	Make sure that containers of this product are kept tightly closed. Keep containers dry and away from water. Make sure that the product does not come into contact with substances listed under 'Incompatibilities' in Section 10. Check packaging – there may be further storage instructions on the label.

## Section 8 – Exposure controls/Personal Protection

<b>Workplace Exposure Standards:</b>	No workplace exposure standards have been established for this product by Worksafe New Zealand.
<b>Appropriate Engineering Controls:</b>	Provide sufficient ventilation to prevent build-up of fumes.
<b>Personal Protective Equipment</b>	Eye/Face – Protective glasses or face mask that comply with AS/NZS 1336:2014. Skin – Protective gloves that comply with AS/NZS 2161.2:1998. Clothing – When dealing with a spill wear protective clothing that complies with AS/NZS 4501.1:2008 and AS/NZS 2210.3:2009

## Section 9 – Physical and Chemical Properties

<b>Appearance:</b>	Oily liquid	<b>Flammability:</b>	No data available
<b>Colour:</b>	Yellow-gold to Brown	<b>Explosive Limits:</b>	No data available
<b>Odour:</b>	No data available	<b>Vapour Pressure:</b>	No data available
<b>pH @ 20°C:</b>	No data available	<b>Vapour Density:</b>	No data available
<b>Specific Gravity:</b>	No data available	<b>Solubility:</b>	Complete in water
<b>Viscosity @ 20°C:</b>	No data available	<b>Partition Coefficient:</b>	No data available
<b>Freezing Point:</b>	No data available	<b>Auto-ignition Temperature:</b>	No data available
<b>Boiling Point:</b>	No data available	<b>Decomposition Temperature:</b>	No data available
<b>Flash Point:</b>	No data available		

## Section 10 – Stability and Reactivity

<b>Chemical Stability:</b>	Take precaution to avoid mixing combustibles and other incompatible materials.
<b>Incompatible Materials:</b>	Strong acids/alkalis and strong oxidisers.
<b>Hazardous Decomposition Products:</b>	Combustion forms carbon dioxide and if incomplete carbon monoxide and in addition to oxides of sulphur, nitrogen and ammonia and possibly smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment and unconsciousness followed by coma and death.
<b>Hazardous Polymerisation:</b>	This product will not undergo polymerization reactions.

## Section 11 – Toxicological Information

**Summary:**

No specific data is available for this product.

Toxicological data has been evaluated/calculated for the mixture. The product is considered to have the following potential health effects.

Contact with the eyes may result in serious eye irritation.

**Supporting Data:**

Acute	Oral:	No data available.
	Dermal:	No data available.
	Inhalation:	No data available.
	Eye	The mixture is a serious eye irritant based on the quantities of the relevant components in the mixture.
	Skin	The mixture is a serious skin irritant based on the quantities of the relevant components in the mixture.
Chronic	Sensitisation:	No data available.
	Mutagenicity:	No data available.
	Carcinogenicity:	No data available.
	Reproductive:	The mixture is suspected of damaging fertility or causing harm to the unborn child based on the concentration of Boric Acid in the formulation.
	Systemic:	The mixture is suspected of damaging the central nervous system with prolonged or repeated exposure.

## Section 12 – Ecological Information

**Summary:**

No specific data is available for this product.

<b>Aquatic:</b>	No data available.
<b>Bioaccumulation:</b>	No data available.
<b>Degradability:</b>	No data available.
<b>Soil:</b>	No data available.
<b>Terrestrial Vertebrate:</b>	No data available.
<b>Terrestrial Invertebrate:</b>	No data available.

## Section 13 – Disposal Considerations

Rinse container well with water before disposal. Preferably re-cycle container, otherwise send to an authorized landfill or similar.

## Section 14 – Transport Information

This product is not classified as dangerous goods for transport according to the following:

- NZS 5433:2020 –Transport of Dangerous Goods on Land.
- IMDG – International Maritime Dangerous Goods Code.
- IATA – International Air Transport Association.

This substance is not a Marine Pollutant.

## Section 15 – Regulatory Information

**NZ EPA Approval Code:** Fertilisers (Subsidiary Hazard) Group Standard 2020 – HSR002571

**HSNO Controls:**

Trigger quantities for this substance:

	<b>Trigger Quantity</b>
Certified Handler	Not Required
Location Certificate	Not Required
Tracking Trigger Quantities	Not Applicable
Signage Trigger Quantities	Not Applicable
Emergency Response Plan Trigger Quantities	10,000L (STOT Rep. Exp. 1)

NZIoC: All components are listed on the New Zealand Inventory of Chemical Substances.

## Section 16 – Other Information

**SDS Version Number:** 1.0  
**SDS Effective Date:** 27 March 2023  
**SDS Review Date:** 27 March 2028  
**SDS Regulation:** The content and format of this SDS is in accordance with the HSNO Approved Code of Practice (No. HSNOCOP 8-1 09-06): Preparation of Safety Data Sheets.

**Abbreviations:**

CAS	Chemical Abstracts Service (Registry Number)
CCID	Chemical Classification and Identification Database
g	Grams
g/mL	Grams per millilitre (Specific Gravity)
GHS	Globally Harmonised System of Hazard Classification
HSNO	Hazardous Substances and New Organisms Act 1997
NZEPA	New Zealand Environmental Protection Agency
mL	Millilitres

**Disclaimer:**

This document is compiled based on current knowledge as provided by Naturefarm Ltd or information obtained from third party sources relating to safety and handling precautions for this product.

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