

# SAFETY DATA SHEET

**Iron Essentials™**

**Date of Issue: 24/07/2023**

## CLASSIFICATION OF MATERIAL

### HAZARDOUS CHEMICAL

Classified as Hazardous according to Safe Work Australia (GHS)

Not a Dangerous Good according to the Australian Dangerous Goods Code

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name:</b>	Iron Essentials™
<b>UN Proper Shipping Name:</b>	N/A
<b>Recommended Use:</b>	Fertiliser
<b>Company Name:</b>	Nutri-Tech Solutions Pty Ltd
<b>Address:</b>	7 Harvest Road, Yandina, Qld 4561, Australia
<b>Email:</b>	info@nutri-tech.com.au
<b>ABN:</b>	83 010 472 590
<b>Telephone:</b>	+61 5472 9900
<b>Emergency Telephone Numbers:</b>	Police, Ambulance, Fire: 000 (Mobile 112) Poisons Information Centre (Australia) 13 11 26 Nutri-Tech Solutions Mon-Fri 8:00am-4pm AEST 07 5472 9900 (Australia)

## 2. HAZARDS IDENTIFICATION

### GHS Classification

Acute Toxicity - category 4

Serious Eye Irritation – category 2

Skin Irritation – category 2

### GHS Label elements



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<b>Signal Word:</b>	<b>WARNING</b>
<b>Hazard Statement(s):</b>	
H302	<b>Harmful if swallowed.</b>
H319	<b>Causes serious eye irritation.</b>
H315	<b>Causes skin irritation.</b>
<b>Precautionary Statement(s):</b>	
<b>Prevention:</b>	
P280	<b>Wear eye/face protection and protective gloves.</b>
P264	<b>Wash hands thoroughly after handling.</b>
P270	<b>Do not eat, drink or smoke when using this product.</b>
<b>Response:</b>	
P330	<b>IF SWALLOWED: Rinse mouth.</b>
P301 + 312	<b>Call a POISON CENTRE or doctor if you feel unwell.</b>
P305 + P351 + P338	<b>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</b>
P337 + P313	<b>If eye irritation persists: Get medical advice.</b>
P302 + P352	<b>IF ON SKIN: Wash with plenty of soap and water.</b>
P332 + P313	<b>If skin irritation occurs: Get medical advice.</b>
P362	<b>Take off contaminated clothing and wash before reuse.</b>
P501	<b>Dispose of contents and container in accordance with local and national regulations.</b>

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion
Iron Sulfate	7720-78-7	10-30%
Other fertiliser ingredients determined to be non-hazardous	N/A	To 100%

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### 4. FIRST AID MEASURES

<b>Ingestion:</b>	Immediately rinse mouth with water (only if patient is conscious) and consult a physician or call the poisons information centre.
<b>Eye:</b>	Immediately rinse with plenty of water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water, if irritation persists contact a physician.
<b>Skin:</b>	Remove contaminated clothing and wash with soap and water. If symptoms such as redness or irritation occur, consult a physician. Launder clothes before re-use.
<b>Inhalation:</b>	Remove to fresh air. Get medical attention if irritation occurs or breathing difficulty develops.
<b>First Aid Facilities:</b>	Eye wash station and normal washing facilities.
<b>Advice to Doctor:</b>	Treat symptomatically.
<b>General Information:</b>	N/A

### 5. FIRE FIGHTING MEASURES

<b>Flammability:</b>	Non-flammable and non-combustible. May decompose on heating to emit harmful vapours. Fire fighters recommended to wear SCBA.
<b>Extinguishing media:</b>	Use extinguishing media suitable for surrounding fire situations.
<b>Hazchem Code:</b>	N/A
<b>Precautions in connection with fire</b>	Wear SCBA and contain run-off to prevent entry in water or drainage systems.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Emergency procedures:</b>	Contain spill, do not discharge waste liquid into streams or waterways. Use personal protective equipment as outlined in section 8.
<b>Methods and materials for contamination and clean-up:</b>	Wear protective clothing when cleaning up major spills. Do not contaminate streams or waterways. Wipe up with inert materials and place in labelled containers for waste disposal. Dispose of in compliance with local, state and federal regulations.

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### 7. HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	Avoid contact with eyes, do not inhale spray mist. It is recommended to wear personal protective equipment as outlined in section 8. Prohibit eating, drinking and smoking in contaminated areas.
<b>Storage:</b>	Keep out of reach of children. Store in a cool, dry area in a sealed container. Do not store in prolonged sunlight.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards (ingredients only):</b>	TWA = 1 mg/m <sup>3</sup> (iron salts, soluble, as Fe)
<b>Biological Limit Values:</b>	None established.
<b>Engineering Controls:</b>	Ensure sufficient ventilation to minimise exposure.
<b>Personal Protective Equipment:</b>	The following protective equipment is recommended when handling this product: safety glasses with side shields or a face shield complying with AS/NZS 1337, gloves of an impervious material conforming to AS/NZS 2161, rubber boots, overalls, plastic apron. Suitable respiratory equipment (e.g. disposable fume mask conforming to AS/NZS 1716) is required when spray mist is present. Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking and going to the toilet.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Brown liquid
<b>Odour:</b>	Slight odour
<b>pH:</b>	2.0-3.0
<b>Flammability:</b>	Not combustible
<b>Solubility in Water:</b>	Fully miscible
<b>Lower Explosion Limit:</b>	No data available
<b>Upper Explosion Limit:</b>	No data available
<b>Specific Gravity:</b>	1.1
<b>Conductivity:</b>	35-55 mS/cm
<b>Melting Point:</b>	No data available
<b>Boiling Point:</b>	No data available
<b>Vapour Pressure:</b>	No data available
<b>Evaporation Rate:</b>	No data available

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### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of use.
<b>Hazardous Reactions &amp; Materials to Avoid:</b>	Avoid extreme heat, flames and ignition sources. Hazardous polymerization will not occur.
<b>Hazardous Decomposition Products:</b>	Possible iron compounds, oxides of sulfur may be released.

### 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	No LD <sub>50</sub> data available for this product. Iron sulfate LD <sub>50</sub> (oral, rat) 319 mg/kg.
<b>Skin:</b>	No data available. May cause irritation, wash with soap and water.
<b>Eye:</b>	No data available. Causes eye irritation, wash immediately with water.
<b>Respiratory or skin sensitisation:</b>	No data available.
<b>Germ cell mutagenicity:</b>	No data available.
<b>Carcinogenicity:</b>	No data available.
<b>Reproductive toxicity:</b>	No data available.
<b>Specific Target Organ Toxicity (STOT) single exposure:</b>	No data available.
<b>Specific Target Organ Toxicity (STOT) – repeated exposure:</b>	No data available.
<b>Aspiration Hazard:</b>	No data available.

### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	No data available
<b>Persistence/Degradability:</b>	No data available
<b>Mobility:</b>	No data available
<b>Environmental Protection:</b>	No data available

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### 13. DISPOSAL CONSIDERATIONS

<b>Disposal Method:</b>	Where possible, product should be used for its intended purpose including the rinsings of the container. Dispose of in accordance with all local state and national regulations. Do not discard into drains or waterways.
<b>Container:</b>	Triple or preferably pressure rinse containers before disposal. Dispose of used container in accordance with all local and national regulations. Recycle containers if possible (replace cap and return cleaned container to recyclers or collection point). Empty containers and product should not be burned.

### 14. TRANSPORT INFORMATION

<b>Land Transport (ADG Code):</b>	Not regulated for transport of Dangerous Goods
<b>Air Transport (IATA)</b>	Not regulated for transport of Dangerous Goods
<b>Sea Transport (IMDG Code)</b>	Not regulated for transport of Dangerous Goods

### 15. REGULATORY INFORMATION

<b>SUSMP Poisons Schedule:</b>	Not scheduled.
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## 16. OTHER INFORMATION

<b>Acronyms</b>	
<b>ADG Code:</b>	Australian Code for the Transport of Dangerous Foods by Road and Rail
<b>AICS:</b>	Australian Inventory of Chemical Substances
<b>CAS Number:</b>	Chemical Abstracts Service Registry
<b>GHS:</b>	Globally Harmonised System of Classification and Labelling of Chemicals
<b>Hazchem Code:</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>IARC:</b>	International Agency for Research on Cancer
<b>NDPSC:</b>	National Drugs and Poisons Scheduling Committee
<b>NOS:</b>	Not Otherwise Specified
<b>NTP:</b>	National Toxicology Program (USA)
<b>UN Number:</b>	United Nations Number
<b>SUSMP:</b>	Standard for the Uniform Scheduling of Medicines and Poisons
<b>STEL:</b>	Short Term Exposure Limit
<b>TWA:</b>	Time Weighted Average (the average airborne concentration when calculated over a normal eight hour working day for five days a week)
<b>LD<sub>50</sub>:</b>	Lethal Dose for 50% Mortality
<b>SCBA:</b>	Self Contained Breathing Apparatus

### Disclaimer

The data and recommendations presented herein are based upon research of others and are believed to be accurate. However, no warranty is expressed or implied regarding this data or the results to be obtained from use thereof. Nutri-Tech Solutions P/L, assumes no responsibility for the injury to customers or third party proximity caused by the material if reasonable safety procedures are not adhered to as stipulated in this data sheet.

**END OF SDS**