

SAFETY DATA SHEET

Cal-Tech™

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

Product Name:	Cal-Tech™
UN Proper Shipping Name:	N/A
Recommended Use:	Fertiliser
Company Name:	Nutri-Tech Solutions Pty Ltd
Address:	7 Harvest Road, Yandina, Qld 4561, Australia
Email:	info@nutri-tech.com.au
ABN:	83 010 472 590
Telephone:	+61 5472 9900
Emergency Telephone Numbers:	Police, Ambulance, Fire: 000 (Mobile 112) Poisons Information Centre (Australia) 13 11 26 Nutri-Tech Solutions Mon-Fri 8:00-4pm 54729900

2. HAZARDS IDENTIFICATION

GHS Classification

Reproductive Toxicity – category 1B

GHS Label elements



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Signal Word:	DANGER
Hazard Statement(s):	
H360	May damage fertility or the unborn child.
Precautionary Statement(s):	
Prevention:	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P281	Use personal protective equipment as required.
Response:	
P308 + P313	If exposed or concerned get medical advice.
Storage:	
P405	Store locked up.
Disposal:	
P501	Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion
Calcium nitrate	10124-37-5	40-60%
Boric Acid	10043-35-3	<2%
Fertiliser ingredients determined to be non-hazardous (including fish)	N/A	To 100%

4. FIRST AID MEASURES

Ingestion:	Rinse mouth with water. Do not induce vomiting unless advised to do so by medical personnel. Give plenty to drink provided patient is conscious. Seek medical advice.
Eye:	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.
Skin:	Remove contaminated clothing and wash with soap and water. If symptoms such as redness or irritation occur, consult a physician.
Inhalation:	Remove to fresh air. Get medical attention if irritation occurs or breathing difficulty develops.
First Aid Facilities:	Normal washing facilities.
Advice to Doctor:	Ingestion of large quantities may lead to formation of methaemoglobin due to nitrate content. Gastric lavage may be used.

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5. FIRE FIGHTING MEASURES

Flammability:	Non-flammable. May decompose on heating to emit oxides of nitrogen. Fire fighters recommended to wear SCBA.
Extinguishing media:	Water spray, dry agent (carbon dioxide, chemical powder). Keep containers cool with water spray.
Hazchem Code:	N/A
Precautions in connection with fire:	Clear area of all non-emergency personnel. Stay upwind. Eliminate ignition sources. Contain run-off to prevent entry in water or drainage systems.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:	Clean up spills immediately. Increase ventilation. Avoid walking in spilled product as it is slippery. Shut off possible ignition sources.
Methods and materials for contamination and clean-up:	Wear protective clothing when cleaning up major spills. Soak up spilled product with absorbent non-combustible material such as sand or soil, collect and transfer to a suitable labelled chemical waste container and dispose of promptly. 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.

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with eyes and skin, 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. Avoid static discharges. Do not allow product to dry out.
Storage:	Keep out of reach of children. Store in a cool, dry area in a sealed container. Store away from reducing agents, ammonia, hydrazine, combustible materials. Do not store in prolonged sunlight.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards:	None established.
Biological Limit Values:	None established.
Engineering Controls:	Ensure sufficient ventilation to minimise exposure.
Personal Protective Equipment:	The following protective equipment is recommended when handling this product: safety glasses, impervious gloves, overalls and safety shoes. In circumstances where exposure to spray mist is likely ensure sufficient ventilation or wear an approved respirator conforming to AS1715/1716. 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

Appearance:	Brown liquid
Odour:	Fish odour
pH:	3.5-4.5
Flammability:	Not combustible
Solubility in Water:	Fully miscible
Lower Explosion Limit:	No data available
Upper Explosion Limit:	No data available
Specific Gravity:	1.4
Conductivity:	45-65 mS/cm
Melting Point:	No data available
Boiling Point:	No data available
Vapour Pressure:	No data available
Evaporation Rate:	No data available

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use. Do not let product dry out.
Hazardous Reactions & Materials to Avoid:	Avoid extreme heat, flames and ignition sources. Avoid reducing agents, ammonia, hydrazine, combustible materials. Hazardous polymerization will not occur.
Hazardous Decomposition Products:	Possible oxides of nitrogen may be released.

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	No LD ₅₀ data available for this product. Boric acid LD ₅₀ (Oral, rat) >2000 mg/kg. Ingestion of large quantities of this product can cause methemoglobinemia with headaches, heartbeat irregularities, blood pressure loss, cramps and breathing difficulties due to nitrate content.
Skin:	No data available. May cause irritation, wash with soap and water.
Eye:	No data available. May cause irritation, wash immediately with water.
Respiratory or skin sensitisation:	No data available.
Germ cell mutagenicity:	No data available.
Carcinogenicity:	No data available.
Reproductive toxicity:	No data available.
Specific Target Organ Toxicity (STOT) single exposure:	No data available.
Specific Target Organ Toxicity (STOT) – repeated exposure:	No data available.
Aspiration Hazard:	No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	No data available
Persistence/Degradability:	No data available
Mobility:	No data available
Environmental Protection:	No data available

13. DISPOSAL CONSIDERATIONS

Disposal Method:	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.
Container:	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.

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14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

SUSMP Poisons Schedule:	Not scheduled.
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16. OTHER INFORMATION

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

Disclaimer

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END OF SDS