



### 1. Identification of Substance & Company

#### Product

<b>Product name</b>	Egmont Tree and Shrub
<b>Other names</b>	Egmont Tree and Shrub Tabs 50pk Egmont Nitro Tabs 25pk
<b>HSNO approval</b>	HSR002571
<b>Approval description</b>	Fertilisers (Subsidiary Hazard) Group Standard 2020
<b>UN number</b>	NA
<b>DG class</b>	NA
<b>Proper Shipping Name</b>	NA
<b>Packaging group</b>	NA
<b>Hazchem code</b>	NA
<b>Uses</b>	Fertiliser

#### Company Details

<b>Company</b>	<b>EGMONT COMMERCIAL</b>
<b>Address</b>	PO Box 37-326 Christchurch 8245 New Zealand
<b>Website</b>	<a href="http://www.egmontcommercial.co.nz">www.egmontcommercial.co.nz</a>
<b>Telephone</b>	Auckland (09) 838 2960 Christchurch (03) 349 5546
<b>Email</b>	<a href="mailto:sales@egmontnz.com">sales@egmontnz.com</a>

**Emergency Telephone Number: 0800 764 766 (POISON CENTRE)**

### 2. Hazard Identification

#### Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2020). This substance has been classified as hazardous according to the criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

#### GHS Classes

Reproductive toxicity cat 2

#### Hazard Statements

H361 - Suspected of damaging fertility or the unborn child.

#### SYMBOLS

# WARNING



#### HSNO Classifications

There are no other classifications that are known to apply.

#### Precautionary Statements

<b>Prevention</b>	P103 - Read label before use. 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.
<b>Response</b>	P308+P313 - IF exposed or concerned: Get medical advice/ attention.
<b>Storage</b>	P405 - Store locked up.
<b>Disposal</b>	P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.



### 3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Potassium nitrate	7757-79-1	5-10%
Ferrous sulphate monohydrate	17375-41-6	<1%
Manganese sulphate monohydrate	7785-87-7	<0.5%
Boric acid	10043-35-3	<0.5%
Zinc sulphate monohydrate	7446-19-7	<0.05%
ingredients not contributing to GHS classes	mixture	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

### 4. First Aid

#### General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

#### Recommended first aid facilities

Ready access to running water is required. Accessible eyewash is required.

#### Exposure

##### Swallowed

IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. Give a glass of water to drink.

##### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

##### Skin contact

This product is non-irritating to skin. No further measures should be required.

##### Inhaled

Generally, vapours/dusts is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor.

#### Advice to Doctor

Treat symptomatically

### 5. Firefighting Measures

#### Fire and explosion hazards: Suitable extinguishing substances:

There are no specific risks for fire/explosion for this chemical. It is non-flammable. Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.

#### Unsuitable extinguishing substances:

Unknown.

#### Products of combustion:

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.

#### Protective equipment:

Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.

#### Hazchem code:

NA

### 6. Accidental Release Measures

#### Containment Emergency procedures

In all cases design storage to prevent discharge to storm water.  
In the event of a large spillage (>100kg) alert the fire brigade to location and give brief description of hazard.  
Stop the source of the leak, if safe to do so. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Do not use sawdust. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately).

#### Clean-up method

Sweep up and collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.



- Disposal** Sweep up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.
- Precautions** Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.

### 7. Storage & Handling

- Storage** SDS sheet must be available. Store locked up. Store away from incompatible materials described in Section 10. Store in a cool, dry, area with sufficient natural/mechanical ventilation to avoid airborne hazards.
- Handling** Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

### 8. Exposure Controls / Personal Protective Equipment

#### Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m<sup>3</sup> for respirable particulates and 10mg/m<sup>3</sup> for inhalable particulates when limits have not otherwise been established.

NZ Workplace Exposure Stds	Ingredient	WES-TWA*	WES-STEL
	ferrous sulphate monohydrate	1mg/m <sup>3</sup>	Not listed
	Manganese sulphate monohydrate (respirable) as Mn	0.02mg/m <sup>3</sup> (respirable)	Not listed
	Manganese sulphate monohydrate as Mn	0.2mg/m <sup>3</sup>	
	Boric acid (see borates below)	Not listed	Not listed
	Zinc sulphate monohydrate	Not listed	Not listed
	Borates:		
	Borates, tetra sodium salts (anhydrous)	1mg/m <sup>3</sup>	Not listed
	Borates, tetra, sodium salts (decahydrate)	5mg/m <sup>3</sup>	Not listed
	Borates, tetra, sodium salts (pentahydrate)	1mg/m <sup>3</sup>	Not listed

#### Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

#### Personal Protective Equipment

- Eyes** Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eyewear if splashes are likely.
- Skin** Protective gloves and clothing are not normally necessary. However, it is prudent to wear gloves when handling chemicals in bulk or for an extended period of time.
- Respiratory** A respirator when airborne concentrations approach the WES (section 8). Respirators must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use respirator with a dust/mist filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

#### WES Additional Information

Not applicable



### 9. Physical & Chemical Properties

Appearance	solid light beige coloured tablets
Odour	odourless
Odour Threshold	no data
pH	6
Freezing/melting point	no data
Boiling Point	no data
Flashpoint	no data
Flammability	non flammable
Upper & lower flammable limits	no LEL or UEL
Vapour pressure	no data
Vapour density	no data
Specific gravity/density	~2g/cm <sup>3</sup>
Solubility	no data
Partition coefficient	no data
Auto-ignition temperature	no data
Decomposition temperature	no data
Viscosity	no data
Particle Characteristics	no data

### 10. Stability & Reactivity

<b>Stability</b>	Stable
<b>Conditions to be avoided</b>	Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames.
<b>Incompatible groups</b>	none known
<b>Substance Specific Incompatibility</b>	none known
<b>Hazardous decomposition products</b>	none known
<b>Hazardous reactions</b>	none known

### 11. Toxicological Information

#### Summary

IF SWALLOWED: large amounts may cause gastrointestinal irritation.  
IF IN EYES: no effect anticipated.  
IF ON SKIN: no effect anticipated.  
IF INHALED: no effect anticipated/  
CHRONIC TOXICITY: exposure to boric acids may affect reproductive system.

#### Supporting Data

<b>Acute</b>	<b>Oral</b>	Using LD <sub>50</sub> 's for ingredients, the Acute Toxicity Estimate (ATE) (oral) for the mixture is >2,000 mg/kg. Data considered includes: <b>Potassium nitrate</b> 1901 mg/kg (rat), <b>Ferrous sulphate monohydrate</b> 1520mg/kg (mouse), <b>Manganese sulphate monohydrate</b> 782mg/kg (rat), <b>Boric acid</b> 2668 mg/kg (mouse), <b>Zinc sulphate monohydrate</b> 1891mg/kg (mouse).
	<b>Aspiration</b>	This mixture is not an aspiration hazard.
	<b>Dermal</b>	Using LD <sub>50</sub> 's for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the mixture is >2,000 mg/kg.
	<b>Inhaled</b>	Using LD <sub>50</sub> 's for ingredients, the Acute Toxicity Estimate (ATE) (inhalation) for the mixture is >5mg/L/4h.
	<b>Eye</b>	The mixture is not considered to be an eye irritant.
	<b>Skin</b>	The mixture is not considered to be a skin irritant.



**Chronic Sensitisation  
Mutagenicity  
Carcinogenicity  
Reproductive /  
Developmental  
Systemic  
Aggravation of  
existing conditions**

No ingredient present at concentrations > 0.1% is considered a sensitizer.  
No ingredient present at concentrations > 0.1% is considered a mutagen.  
No ingredient present at concentrations > 0.1% is considered a carcinogen.  
The mixture is considered to be a suspected reproductive or developmental toxicant.  
Borates are considered suspected reproductive/developmental toxicant.  
No ingredient present at concentrations > 1% is considered a target organ toxicant.  
None known.

## 12. Ecological Data

### Summary

This mixture is not considered ecotoxicity. In all cases prevent run-off to drains, sewers and waterways.

### Supporting Data

<b>Aquatic</b>	Using EC <sub>50</sub> 's for ingredients, the calculated EC <sub>50</sub> for the mixture is > 100 mg/L. Data considered includes: <b>Ferrous sulphate monohydrate</b> 20.8mg/L (96hr, Rainbow trout <i>Oncorhynchus mykiss</i> ), 7.1mg/L 948hr, Water flea <i>Daphnia pulex</i> ), <b>Manganese sulphate monohydrate</b> 61mg/l (72h, algae), <b>Zinc sulphate monohydrate</b> 0.30179 mg/l (fish).
<b>Bioaccumulation</b>	No data
<b>Degradability</b>	No data
<b>Soil</b>	No evidence of soil toxicity.
<b>Terrestrial vertebrate</b>	See acute toxicity.
<b>Terrestrial invertebrate</b>	No evidence of toxicity towards terrestrial invertebrates.
<b>Biocidal</b>	no data
<b>Environmental effect levels</b>	No EELs are available for this mixture or ingredients

## 13. Disposal Considerations

<b>Restrictions</b>	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
<b>Disposal method</b>	Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.
<b>Contaminated packaging</b>	Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible reuse or recycle packaging.

## 14. Transport Information

### Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

There are no specific restrictions for this product (not a dangerous good).

<b>UN number:</b>	NA	<b>Proper shipping name:</b>	NA
<b>Class(es)</b>	NA	<b>Packing group:</b>	NA
<b>Precautions:</b>	NA	<b>Hazchem code:</b>	NA



### 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2020. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

#### Specific Controls

Key workplace requirements are:

SDS	To be available within 10 minutes in workplaces storing any quantity.
Inventory	An inventory of all hazardous substances must be prepared and maintained.
Packaging	All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied
Labelling	Must comply with the Hazardous Substances (Labelling) Notice 2017.
Emergency plan	Not required.
Certified handler	Not required.
Tracking	Not required.
Bundling & secondary containment	Not required.
Signage	Not required.
Location compliance certificate	Not required.
Flammable zone	Not required.
Fire extinguisher	Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

#### Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

### 16. Other Information

#### Abbreviations

<b>Approval Code</b>	Approval HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2020 Controls, EPA. <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>
<b>CAS Number</b>	Unique Chemical Abstracts Service Registry Number
<b>EC<sub>50</sub></b>	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
<b>EPA</b>	Environmental Protection Authority (New Zealand)
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
<b>HSNO</b>	Hazardous Substances and New Organisms (Act and Regulations)
<b>IARC</b>	International Agency for Research on Cancer
<b>LEL</b>	Lower Explosive Limit
<b>LD<sub>50</sub></b>	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
<b>LC<sub>50</sub></b>	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
<b>MSDS (SDS)</b>	Material Safety Data Sheet (or Safety Data Sheet)
<b>STEL</b>	Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
<b>TWA</b>	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
<b>UEL</b>	Upper Explosive Limit
<b>UN Number</b>	United Nations Number
<b>WES</b>	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone.



# Egmont Tree and Shrub

## Safety Data Sheet

### References

<b>Data</b>	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
<b>Controls</b>	EPA notices, <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> , Health and Safety at Work (Hazardous Substances) Regulations 2017, <a href="http://www.legislation.govt.nz">www.legislation.govt.nz</a>
<b>WES</b>	The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site – <a href="http://www.worksafe.govt.nz">www.worksafe.govt.nz</a> .
<b>Other References:</b>	EU ECHA

### Review

Date	Reason for review
September 2022	Not applicable – new SDS

### Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email [info@datachem.co.nz](mailto:info@datachem.co.nz) or phone: **+64 21 104 0951**.

