# grochem

# Escape

# HAZARDOUS, NON-DANGEROUS GOODS

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION	
Product name:	Escape
Recommended use:	A specialist fertiliser adjuvant designed to enhance the uptake of Calcium nitrate fertilisers, applied during dormancy, into buds of dormant deciduous crops. Application will assist with nitrogen driven plant growth that occurs prior to budbreak.
Supplier:	Grochem (AgriNova New Zealand Limited)
Company No.:	9429036821501
Street Address:	15 Sunlight Grove Porirua New Zealand
Telephone:	+64 4 237 0905
Email:	grochem@grochem.com
Emergency telephone:	New Zealand 0800 CHEMCALL - 24 hours (0800 243 6225)
	Australia 1800 127 406 Other locations +64 4 917 9888
	or The National Poisons Centre 0800 POISON (0800 764 766)

# 2. HAZARDS IDENTIFICATION

#### This material is hazardous according to the criteria of EPA New Zealand GHS 7.

#### **EPA Group Standard:**

HSR002571 - Fertilisers (Subsidiary Hazard) Group Standard 2020

Signal Word:	Danger
Hazard Classifications:	Acute Toxicity - Oral - Category 4 Serious Eye Damage/Irritation - Category 1
Hazard Statements:	H302 - Harmful if swallowed. H318 - Causes serious eye damage.
Prevention Precautionary Statements:	<ul> <li>P102 - Keep out of reach of children.</li> <li>P103 - Read carefully and follow all instructions.</li> <li>P264 - Wash hands, face and all exposed skin thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P280 - Wear protective gloves/protective clothing including eye/face protection and suitable respirator.</li> </ul>
Response Precautionary Statements:	<ul> <li>P101 - If medical advice is needed, have product container or label at hand.</li> <li>P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310 - Immediately call a POISON CENTER/doctor/insert appropriate source of emergency medical advice.</li> <li>P330 - Rinse mouth.</li> </ul>

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#### Storage Precautionary Statement:

Not allocated

## **Disposal Precautionary Statement:**

P501 - Dispose of contents/container in accordance with local, regional, national and international regulations.

## DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION		
CHEMICAL ENTITY	CAS NO	PROPORTION
Oxirane, methyl-, polymer with oxirane, mono(2-propylheptyl)ether	166736-08-9	20 - 25% (w/w)
Nitric acid, ammonium salt	6484-52-2	30 - 40% (w/w)
Nitric acid, ammonium calcium salt	15245-12-2	15 - 20% (w/w)
Ingredients determined to be Non-Hazardous		Balance
		100%

# **4. FIRST AID MEASURES**

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation:	Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
Skin Contact:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.
Eye contact:	Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.
Ingestion:	Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Immediately call Poisons Centre or Doctor.
PPE for First Aiders:	Wear overalls, gloves, safety glasses. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
Notes to physician:	Treat symptomatically. Can cause corneal burns.
5. FIRE FIGHTING MEASURES	
Hazchem Code:	Not applicable.
Suitable extinguishing media:	If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).
Specific hazards:	Non-combustible material.
Firefighting further advice:	Not combustible, however following evaporation of aqueous component residual

material can burn if ignited.



# 6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS:	Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.
LARGE SPILLS:	Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain – prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
Dangerous Goods - Initial Emergency Res	ponse Guide No: Not applicable

7. HANDLING AND STORAGE	
Handling:	Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols.
Storage:	Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.
8. EXPOSURE CONTROLS / PERSONA	AL PROTECTION
National occupational exposure limits:	No value assigned for this specific material by WorkSafe New Zealand.
Biological Limit Values:	As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.
Engineering Measures:	Natural ventilation should be adequate under normal use conditions.
Personal Protection Equipment:	OVERALLS, GLOVES, SAFETY GLASSES. Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted. Wear overalls, gloves, safety glasses. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
Hygiene measures:	Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES			
Form:	Clear Liquid	Solubility:	Soluble in water
Colour:	Colourless	Specific Gravity:	1.18 - 1.22
pH:	6.0 - 6.5	Boiling Point/Range (°C):	> 100

10. STABILITY AND REACTIVITY	
Chemical stability:	This material is thermally stable when stored and used as directed.
Conditions to avoid:	Elevated temperatures and sources of ignition.
Incompatible materials:	Oxidising agents.
Hazardous decomposition products:	Oxides of carbon and nitrogen, smoke and other toxic fumes.
Hazardous reactions:	No known hazardous reactions.



# **11. TOXICOLOGICAL INFORMATION**

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

#### **ACUTE EFFECTS**

Inhalation:	Material may be an irritant to mucous membranes and respiratory tract.
Skin contact:	Contact with skin may result in irritation.
Ingestion:	Harmful if swallowed. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
Eye contact:	A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.
ACUTE TOXICITY	
Inhalation:	This material has been classified as not hazardous for acute inhalation exposure. Acute toxicity estimate (based on ingredients): LC <sub>50</sub> > 20.0 mg/L for vapours or LC <sub>50</sub> > 5.0 mg/L for dust and mist.
Skin contact:	This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients): LD <sub>50</sub> > 2,000 mg/Kg bw
Ingestion:	This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 300 < LD <sub>50</sub> ≤ 2,000 mg/Kg bw
Corrosion/Irritancy:	Eye: this material has been classified as a Category 1 Hazard (irreversible effects to eyes). Skin: this material has been classified as not corrosive or irritating to skin.
Sensitisation:	Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.
Aspiration hazard:	This material has been classified as not an aspiration hazard.
Specific target organ toxicity	(single exposure): This material has been classified as not a specific hazard to target organs by a single exposure.
CHRONIC TOXICITY	
Mutagenicity:	This material has been classified as non-hazardous.
Carcinogenicity:	This material has been classified as non-hazardous.
Reproductive toxicity (includi	ng via lactation): This material has been classified as non-hazardous.
Specific target organ toxicity	(repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION	
Avoid contaminating waterways.	
Acute aquatic hazard:	This material has been classified as not hazardous for acute aquatic exposure. Acute toxicity estimate (based on ingredients): > 100 mg/L
Chronic aquatic hazard:	This material has been classified as not hazardous for chronic aquatic exposure. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/ or BCF < 500 and/or log Kow < 4.
Ecotoxicity in the soil environment:	This material has been classified as non-hazardous.
Ecotoxicity to terrestrial vertebrates:	This material has been classified as non-hazardous.
Ecotoxicity to terrestrial invertebrates:	This material has been classified as non-hazardous.
Ecotoxicity:	No information available.
Persistence and degradability:	No information available.
Bioaccumulative potential:	No information available.
Mobility:	No information available.



### **13. DISPOSAL CONSIDERATIONS**

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

#### **14. TRANSPORT INFORMATION**

#### **ROAD AND RAIL TRANSPORT**

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

#### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

#### **AIR TRANSPORT**

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

#### **15. REGULATORY INFORMATION**

#### This material/constituent(s) is covered by the following requirements:

NZ EPA Status:All components of this product are listed on or exempt from the New Zealand Inventory<br/>of Chemical (NZIoC).EPA Group Standard:HSR002571 - Fertilisers (Subsidiary Hazard) Group Standard 2020.

## **16. OTHER INFORMATION**

#### **Reason for issue:**

First Issue

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer, it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

This SDS summarises our best knowledge of the health and safety hazard information available for this product and how to safely handle and use it. Since the use of this information and the conditions of the use of this product are not under the control of Grochem, it is the user's responsibility to determine conditions of safe use of the product.