


**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY**

PRODUCT NAME: CANDOPA  
OTHER NAME: Emulsifiable concentrate containing 250 g/L trinexapac-ethyl  
USE: Plant growth regulator  
SUPPLIER NAME: AGPRO NZ Ltd  
SUPPLIER ADDRESS: 10 Polaris Place, East Tamaki, Auckland 2013  
PO Box 58-963, Botany, Auckland 2163  
SUPPLIER CONTACT: 09 273 3456 or freephone 0508 536 536  
www.agpro.co.nz  
POISON INFORMATION: National Poison Centre, 0800 POISON (0800 764 766) 24 hours  
CHEMICAL EMERGENCY: 0800 CHEMCALL (0800 243 622) 24 hours

**2. HAZARDS IDENTIFICATION**

NEW ZEALAND: Hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996  
APPROVAL NUMBER: HSR101220  
HAZARD CLASSIFICATIONS: Flammable liquid Category 4, Eye irritation Category 2, Hazardous to soil organisms, Hazardous to the aquatic environment acute Category 1  
PICTOGRAMS:   
SIGNAL WORD: WARNING  
HAZARD STATEMENTS: Combustible liquid  
Causes serious eye irritation.  
Very toxic to aquatic life.  
Harmful to soil organisms.  
PREVENTION: Read label before use.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Wash hands after handling.  
Wear eye protection.  
Avoid release to the environment.  
RESPONSE: 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.  
Collect spillage.  
In case of fire: Stop leak if safe to do so.  
STORAGE: Store in a well-ventilated place. Keep container tightly closed. Keep cool.  
DISPOSAL: Dispose of unwanted product and used packaging in compliance with local regulations.  
TRANSPORT: CANDOPA is classified as Dangerous Goods Class 9 for Transport.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS No.	% w/w
Trinexapac-ethyl	95266-40-3	25 - 27*
Other ingredients	Trade secret	balance

\* equivalent to 250 g/L trinexapac-ethyl

### 4. FIRST - AID MEASURES

Contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor for advice. Have product label or SDS at hand.

Ingestion	If swallowed, do NOT induce vomiting. Rinse mouth with water. Contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor for advice.
Inhalation	Remove patient to fresh air. Keep in position comfortable for breathing. If breathing is shallow or has stopped ensure airway is clear, apply resuscitation and seek medical assistance immediately.
Skin contact	Remove contaminated clothing and wash with soap and running water. If irritation occurs, get medical advice.
Eye contact	If in eyes flush with plenty of water holding eyelids open if necessary. Remove contact lenses if present, after a few minutes, then continue flushing with water. Get medical advice if irritation persists.
Advice to Doctor	No specific antidote. Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

Flammability:	Combustible liquid and vapour.
Hazardous Combustion Products:	If involved in a fire, may evolve toxic/harmful compounds.
Extinguishing Media:	Foam, carbon dioxide or dry chemical. Use water fog or fine water spray if no alternatives. Do not use water jet. Contain all run-off.
Protective Equipment:	Full protective clothing and self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Spills and Disposal:	Eliminate or isolate sources of ignition. No smoking. Wear personal protective equipment. Exclude non-essential people from the area. Stop leak if safe to do so. Contain spillage. Collect liquid into labelled containers than can be closed, for reuse or disposal. Absorb spills with inert material and place in a sealable labelled waste container. Dispose of waste safely in an approved landfill or hazardous waste facility.
Environmental Precautions:	Prevent from entering drains, waterways or sewers. If spill does enter waterways immediately contact local authority.

### 7. HANDLING AND STORAGE

Handling:	<p>Read label before use. Keep container tightly closed when not in use. Use only according to label.</p> <p>Wear personal protective equipment. Avoid contact with skin and eyes and inhalation of vapours or spray mist. Contaminated work clothing should not be allowed out of the workplace. Use outdoors or in well-ventilated area. Do not apply directly into or onto water. Take all reasonable steps to ensure the product does not cause any significant adverse effects to the environment beyond the application area.</p> <p>Written records of use are required if more than 3 kg (3L) applied within 24 hours in a place where the product is likely to enter air or water and leave the application area. CANDOPA must be under the control of a Qualified Handler during use.</p> <p>This substance is not to be applied to amenity grass/turf.</p>
Storage:	<p>Signage, an emergency response plan and secondary containment are required when 100 L or more is on site.</p> <p>Store in original container tightly closed and in a secure well-ventilated area avoiding flames, hot surfaces, direct</p>

sunlight and away from foodstuffs, fertilisers and seeds.

For guidance refer to the current version of NZS 8409 Management of Agrichemicals and the Health and Safety at Work (Hazardous Substances) Regulations 2017.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: Worksafe NZ (13<sup>th</sup> edition, April 2022)

<i>Ingredient</i>	<i>Exposure</i>	<i>Form</i>	<i>Ceiling</i>
No ingredients listed	-	-	-

Protective Equipment: When opening the container, preparing to measure, load or when applying: wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Engineering Controls: Handle outdoors or in a well-ventilated area. Use local exhaust ventilation, or other engineering controls as appropriate to conditions.

Hygiene Precautions: Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing and equipment daily after work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear brown liquid
Odour:	Characteristic
Odour threshold:	No information available
pH	3.0 – 5.0 (1% aqueous)
Melting point/freezing point:	Not available
Initial boiling point/range:	Not available
Flashpoint:	79°C
Flammability (solid, gas):	Not applicable
Upper/lower flammability limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	ca 0.98
Solubilities:	Forms emulsion in water
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	No information available
Decomposition temperature:	Not available
Kinematic viscosity:	Not available
Particle characteristics:	Not applicable

## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal storage conditions in original container for at least two years.
Conditions to avoid:	Heat, sparks, open flames
Incompatible substances or materials:	Strong acids, strong alkalis.
Hazardous polymerization:	Hazardous polymerization will not occur.

**11. TOXICOLOGICAL INFORMATION**

Acute toxicity:	Not classified as acutely toxic if swallowed, in contact with skin or if inhaled.
Aspiration hazard:	Not classified.
Respiratory irritation:	Not classified.
Skin corrosion/irritation:	Mildly irritating to skin.
Serious eye damage/irritation:	Eye irritant.
Respiratory or skin sensitization:	Not classified, although ECHA identify trinexapac-ethyl as may cause an allergic skin reaction.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified.
Specific organ toxicity:	Not classified although ECHA identify trinexapac-ethyl as may cause damage to organs through prolonged or repeated exposure.
Narcotic effects:	No components identified with narcotic effects.
Toxicological information:	<u>Trinexapac-ethyl (active)</u> Oral, rat LD <sub>50</sub> 4210 mg/kg bw Dermal, rat LD <sub>50</sub> 4000 mg/kg bw Inhalation, rat LC <sub>50</sub> (4 hr) >5.3 mg/L

**12. ECOLOGICAL INFORMATION**

Ecotoxicity:	CANDOPA is classified as being very toxic to aquatic life and with long-lasting effects. CANDOPA is harmful to the soil environment.
Ecotoxicological information:	<u>Trinexapac-ethyl (active)</u> Fish: <i>Ictalurus punctatus</i> LC <sub>50</sub> (96 h) 35 mg/L Crustacean: <i>Daphnia magna</i> EC <sub>50</sub> (48 h) >142.5 mg/L; <i>Americamysis bahia</i> EC <sub>50</sub> (96 h) 5.8 mg/L Aquatic plant: <i>Lemna gibba</i> EC <sub>50</sub> (7 d) biomass, 8.8 mg/L Bird: <i>Anas platyrhynchos</i> LD <sub>50</sub> >2000 mg/kg Earthworm: <i>Eisenia foetida</i> LC <sub>50</sub> (14 d) >93 mg/kg Bee: <i>Apis mellifera</i> LD <sub>50</sub> contact or oral >200 µg/bee
Persistence and degradability:	DT <sub>50</sub> (typical) 0.16 days; DT <sub>50</sub> (field) 14.6 days; non-persistent.
Potential to be bioaccumulative:	Not identified as being bioaccumulative.
Mobility in soil:	Trinexapac-ethyl is soluble in water (10 g/L).
Other adverse effects:	No information available.
Environmental Exposure Limits (EEL):	Not applicable.

**13. DISPOSAL CONSIDERATIONS**

Product Disposal:	Dispose of product only by using according to label or dispose of at an approved landfill.
Container Disposal:	Ensure container is completely empty. Triple rinse with water add rinsate to the spray tank. Dispose of empty clean container to recycler for agricultural chemicals, otherwise crush and bury in an approved landfill. Do not use container for any other purpose.

**14. TRANSPORT INFORMATION**

UN Number: 3082  
 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (TRINEXAPAC-ETHYL 25%)  
 DG Class: 9  
 Packing Group: III  
 Marine Pollutant: Yes  
 HAZCHEM 3Z

**15. REGULATORY INFORMATION**

New Zealand Registered pursuant to the ACVM Act 1997, No. P9458  
 See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions  
 Approved pursuant to the HSNO Act 1996, Approval Code HSR101220; CANDOPA  
 See [www.epa.govt.nz](http://www.epa.govt.nz) for Controls and [www.worksafe.govt.nz](http://www.worksafe.govt.nz).

Qualifications	Qualified Handler
Tracking:	Not required
Safety Data Sheet:	Any quantity
Restricted to workplace only:	No
Quantity that must be secured when unattended:	Not applicable
Fire extinguishers	>500 L; 2 extinguishers required
Quantity for secondary containment and emergency response plan:	>100 L
Quantity for signage:	>100 L
Quantity for Location certificate	Not required
Records of use (3 kg or more applied to area within 24 hours)	Yes
Quantity that requires management in accordance with HSW HS Regulations	Not specified
Additional HSNO Controls	This substance is not to be applied to amenity grass/turf. Maximum application rate of 200g active ingredient /ha.

**16. OTHER INFORMATION**

Version: 1.1

Issue Date: 14 June 2023

Reason for Issue: Supplier's contact details updated

Replaces: Replaces version 1.0 dated 17 August 2022.

**References:**

Supplier Safety Data Sheets

NZ EPA Approved hazardous substances databases.

Worksafe NZ Workplace Exposure Standards and Biological Exposure Indices

NZS 5433:2020 New Zealand Standard Transport of Dangerous Goods on Land

University of Hertfordshire Pesticides Properties Database (PPDB)

**Abbreviations:**

ACVM Agricultural Chemicals and Veterinary Medicines Group

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ADI	Acceptable Daily Intakes
BCF	Bioconcentration factor
CAS Number	Chemical Abstracts Service Registry Number
CCID	Chemical Classification Identification Database
EPA	Environmental Protection Authority
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HSNO	Hazardous Substances and New Organisms
HS	Health and Safety
HSR	Hazardous Substances Register
IARC	International Agency for Research on Cancer
LC <sub>50</sub>	Median Lethal Concentration
LD <sub>50</sub>	Median Lethal Dose (50% population)
SDS	Safety Data Sheet
NOAEL	No Observable Adverse Effect Level
NOEL	No Observable Effect Level
NOS	Not otherwise specified
STEL	Short Term Exposure Limit
TWA	Time-Weighted Average
UN Number	United Nations Number
WES-STEL	Workplace exposure standards – Short-term exposure limit
WES-TWA	Workplace exposure standards – Time-weighted average

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

End of Safety Data Sheet.