

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

PRODUCT NAME: MERGENT
 OTHER NAME: 450g /L prochloraz in the form of an emulsion in water
 USE: Fungicide
 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: HSR101239

HAZARD CLASSIFICATIONS: Aspirant hazard Category 1, Eye irritation Category 2, Specific target organ toxicity (repeated) Category 2, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1.

PICTOGRAMS:



SIGNAL WORD: DANGER

HAZARD STATEMENTS: May be fatal if swallowed and enters airways.
 Causes serious eye irritation.
 May cause damage to organs through prolonged or repeated oral exposure. (liver)
 Very toxic to aquatic life and with long lasting effects.
 Harmful to terrestrial vertebrates.

PREVENTION: Keep out of reach of children.
 Read label before use.
 Do not breathe mist/vapours/spray.
 Wash face and hands thoroughly after handling.
 Wear eye/face protection.
 Do not eat, drink or smoke when using this product.
 Avoid unintended release to the environment.

RESPONSE: If medical advice is needed, have product container or label at hand.
 Get medical advice/attention if you feel unwell.
 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
 Do NOT induce vomiting.
 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.
 Wash contaminated clothing before reuse.
 Collect spill.

STORAGE: Store locked up.

DISPOSAL: Dispose of unwanted product and used packaging in compliance with local regulations.

TRANSPORT: MERGENT is classified as Dangerous Goods Class 9 for Transport (NZS 5433:2020).

LABEL: This substance must be applied by ground-based methods only.

Do not apply directly into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS No.	% w/w
Prochloraz	67747-09-5	40 - 41*
Naphtha, petroleum hydrotreated, heavy	64742-48-9	10 - 20
Ethylene glycol	107-21-1	1 - 9
Other ingredients	Trade secret	balance

*equivalent to 450 g/L prochloraz

This is a commercial product whose exact ratio of components may vary slightly.

4. FIRST - AID MEASURES

Contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor if needing advice.

Have product label or SDS at hand.

Ingestion	May be fatal if product is swallowed and enters the airways. Do NOT induce vomiting. Immediately call the Poisons Centre or a doctor. If vomiting occurs spontaneously, keep head below hips.
Inhalation	Remove patient to fresh air. Keep in position comfortable for breathing. Call the Poisons Centre or a doctor if you feel unwell. Apply artificial respiration if not breathing.
Skin contact	Remove contaminated clothing and wash with soap and water. If irritation persists, get medical advice. Wash contaminated clothing before reuse.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If eye irritation persists, get medical advice.
Advice to Doctor	No specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability:	Non-flammable.
Hazardous Combustion Products:	If involved in a fire, may evolve toxic/harmful compounds.
Extinguishing Media:	Water fog or fine spray, carbon dioxide or dry chemical as appropriate to surrounding materials.
Protective Equipment:	Full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spills and Disposal:	Wear personal protective equipment. Exclude non-essential people from the area. Contain spillage. Collect spillage in labelled containers that can be sealed, for reuse or disposal. Absorb liquid 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:	Keep out of reach of children. Read label before use. Keep container tightly closed when not in use. Use only according to label. Wear personal protective equipment. Avoid contact with skin and eyes and inhalation of vapours or spray mist. Use outdoors or in well-ventilated area.
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Take all reasonable steps to ensure the product does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water.

Use ground-based application methods only.

Written records of use are required if more than 3 kg is applied within 24 hours in a place where the product is likely to enter air or water and leave the application area.

Product must be under the control of a Qualified Handler during use.

Storage:

Signage, an emergency response plan and secondary containment are required when more than 100 L is on site.

Store in original container tightly closed and in a locked well-ventilated area away from foodstuffs, fertilisers and seeds. For guidance refer to the current version of NZS 8409 Management of Agrichemicals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: Worksafe NZ (13th edition, April 2022)

<i>Ingredient</i>	<i>Exposure</i>	<i>Form</i>	<i>Ceiling</i>
Ethylene glycol	Inhalation	Vapour, mist	50 ppm ; 127 mg/m ³

Protective Equipment:

When opening the container, preparing to measure, load or when applying:
overalls, boots, gloves, respiratory and eye protection should be worn.

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: Off white homogeneous liquid

Odour: Petroleum

Odour threshold: No information available.

pH: Not available

Melting point/freezing point: Not available

Initial boiling point/range: Not available

Flashpoint: Non-flammable

Flammability (solid, gas): Not applicable

Upper/lower flammability limits: Not available

Vapour pressure: Not available

Vapour density: Not available

Relative density: 1.12

Solubilities: Disperses 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:	Not specified.
Incompatible substances or materials:	Not specified.
Hazardous polymerization:	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Not classified.
Aspiration hazard:	Contains petroleum solvent that if swallowed and aspirated into lungs may be fatal.
Respiratory irritation:	May be slightly irritating.
Skin corrosion/irritation:	Mild irritant.
Serious eye damage/irritation:	Eye irritant.
Respiratory or skin sensitization:	Not classified.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified.
Specific organ toxicity:	May cause damage to organs on repeated or prolonged exposure. Prochloraz primarily affects the liver, but can also affect the blood and hematopoietic system.
Narcotic effects:	No components identified with narcotic effects.
Toxicological information:	<u>Prochloraz (active)</u> Oral, rat LD ₅₀ 1600 mg/kg bw Dermal, rabbit LD ₅₀ >2100 mg/kg bw

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Product is classified as being very toxic to aquatic life and with long-lasting effects, and harmful to terrestrial vertebrates.
Ecotoxicological information:	<u>Prochloraz (active)</u> Fish: <i>Salmo gairdneri</i> LC ₅₀ (96 h) 1 mg/L Crustacean: <i>Daphnia magna</i> EC ₅₀ (48 h) 2.6 mg/L Algae: <i>Selenastrum capricornutum</i> EC ₅₀ (120 h) biomass, 0.04 mg/L Aquatic plant: <i>Lemna gibba</i> EC ₅₀ (7d) growth, 0.171 mg/L Bird: <i>Colinus virginianus</i> LD ₅₀ 662 mg/kg bw
Persistence and degradability:	Prochloraz is not readily biodegradable. DT ₅₀ (typical) 120 days; persistent.
Potential to be bioaccumulative:	Not expected to be bioaccumulative.
Mobility in soil:	Prochloraz water solubility 34.4 mg/L. Expected to have low leachability in soil.
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 (PROCHLORAZ 45%)
 DG Class: 9
 Packing Group: III
 Marine Pollutant: Yes
 HAZCHEM 3Z

15. REGULATORY INFORMATION

New Zealand Approved pursuant to the ACVM Act 1997, P9845
 See www.foodsafety.govt.nz for registration conditions
 Approved pursuant to the HSNO Act 1996, Approval Code HSR101239
 See www.epa.govt.nz for Controls and www.worksafe.govt.nz.

Qualifications	Yes
Tracking:	Not required
Safety Data Sheet:	Any quantity
Restricted to workplace only:	No
Quantity that must be secured when unattended:	Not applicable
Fire extinguishers	Not 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	100 L
Additional controls	
Label - This substance must be applied by ground-based methods only.	
The maximum application rate is 1.5L/ha (0.675 kg prochloraz active/ha), with a maximum application frequency of three times per season.	

16. OTHER INFORMATION

Version: 1.0
 Issue Date: 4 September 2023
 Reason for Issue: New Safety Data Sheet.
 Replaces: Not applicable.

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
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 ₅₀	Median Lethal Concentration
LD ₅₀	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.