

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

PRODUCT NAME: RYDAZIN

OTHER NAME: Suspension concentrate containing 430 g/L chloridazon

USE: Herbicide

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: HSR101123

HAZARD CLASSIFICATIONS: Skin sensitisation Category 1, Hazardous to soil organisms, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1.

PICTOGRAMS:



SIGNAL WORD: WARNING

HAZARD STATEMENTS: May cause an allergic skin reaction.
Very toxic to aquatic life and with long lasting effects.
Very toxic to soil organisms.

PREVENTION: Read label before use.
Avoid breathing mist/vapours/spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.
Avoid release to the environment.

RESPONSE: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice.
Take off contaminated clothing and wash before re-use.
Collect spillage.

STORAGE: -

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

TRANSPORT: RYDAZIN is classified as Dangerous Goods Class 9 for Transport.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS No.	% w/w
Chloridazon	1698-60-8	35 - 38*
Other ingredients	Trade secret	balance

* equivalent to 430 g/L chloridazon

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. Immediately 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 or rash persists, 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:	Non-flammable.
Hazardous Combustion Products:	If involved in a fire, may evolve toxic/harmful compounds including oxides of carbon.
Extinguishing Media:	Foam, water fog or 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 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. RYDAZIN is a herbicide and spillage on soil may damage crops.

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. 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. 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. RYDAZIN must be under the control of a Qualified Handler during use.
Storage:	Signage, an emergency response plan and secondary containment are required when 100L or more is on site. Store in original container tightly closed and in a secure well-ventilated area 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 (12th edition, November 2020)

<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:	Yellow to beige liquid
Odour:	Characteristic
Odour threshold:	No information available
pH	6.0 - 8.0
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:	ca 1.17
Solubilities:	Forms suspension 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 as acutely toxic if swallowed, in contact with skin or if inhaled.
Aspiration hazard:	Not classified.
Respiratory irritation:	Not classified.
Skin corrosion/irritation:	Not classified.
Serious eye damage/irritation:	Not classified.
Respiratory or skin sensitization:	Chloridazon is identified as causing an allergic skin reaction.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified.
Specific organ toxicity:	Not classified.
Narcotic effects:	No components identified with narcotic effects.
Toxicological information:	<u>Chloridazon (active)</u> Oral, rat LD ₅₀ 2140 mg/kg bw Dermal, rat LD ₅₀ 2000 mg/kg bw Inhalation, rat LC ₅₀ (4 hr) >5.4 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity:	RYDAZIN is classified as being very toxic to aquatic life and with long-lasting effects. RYDAZIN is also very toxic to the soil environment.
Ecotoxicological information:	<u>Chloridazon (active)</u> Fish: <i>Oncorhynchus mykiss</i> LC ₅₀ (96 h) 41.3 mg/L Crustacean: <i>Daphnia magna</i> EC ₅₀ (48 h) 132 mg/L Algae: <i>Pseudokircheriella subcapitata</i> EC ₅₀ (72 hr) growth >3.0 mg/L Aquatic plant: <i>Lemna gibba</i> EC ₅₀ (7d) growth, >3.16 mg/L Bird: <i>Colinus virginianus</i> LD ₅₀ >2000 mg/kg bw
Persistence and degradability:	DT ₅₀ (typical) 31 days; moderately persistent.
Potential to be bioaccumulative:	Not expected to be bioaccumulative.
Mobility in soil:	Expected to be mobile 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., (Chloridazon 43%)
DG Class:	9
Packing Group:	III
Marine Pollutant:	Yes
HAZCHEM	3Z
Do not transport RYDAZIN on a passenger services vehicle.	

15. REGULATORY INFORMATION

New Zealand Registered pursuant to the ACVM Act 1997, No. P9353
See www.foodsafety.govt.nz for registration conditions
Approved pursuant to the HSNO Act 1996, Approval Code HSR101123
See www.epa.govt.nz for Controls and 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	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	1000 L

16. OTHER INFORMATION

Version: 1.1

Issue Date: 8 June 2023

Reason for Issue: Supplier's contact details updated.

Replaces: Version 1.0 dated 28 February 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
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.