

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

PRODUCT NAME: AGPRO FORESTRY Valzine 750 WDG

OTHER NAME: Water dispersible granule containing 63.75% terbuthylazine and 11.25% hexazinone

USE: For selective weed control in forestry and non-selective weed control in industrial areas.

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: HSR101467

HAZARD CLASSIFICATIONS: Acute oral toxicity Category 4, Eye irritation Category 2, Specific target organ toxicity (repeated) Category 2, Hazardous to soil organisms, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1.

PICTOGRAMS:



SIGNAL WORD: WARNING

HAZARD STATEMENTS: Harmful if swallowed.
Causes serious eye irritation.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life and with long lasting effects.
Hazardous to soil organisms.
Hazardous to terrestrial vertebrates.

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

RESPONSE: If medical advice is needed, have product container or label at hand.
Get medical advice if you feel unwell.
IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
Rinse mouth.
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.

STORAGE: -

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

TRANSPORT: AGPRO FORESTRY Valzine 750 WDG is classified as Dangerous Goods Class 9 for Transport

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS No.	% w/w
Terbutylazine	5915-41-3	63.75
Hexazinone	51235-04-02	11.25
Kaolin	1332-58-7	5 - 20
Other ingredients	Trade secret	balance

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 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 if you feel unwell.
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 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:	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 than can be closed, 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. Product 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 dust or spray mist. 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, and must be kept for three years, 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 handling, mixing, loading or application.
Storage:	Signage and an emergency response plan are required when more than 100 kg 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

<i>Ingredient</i>	<i>Exposure</i>	<i>Form</i>	<i>WES-TWA</i>
Kaolin	Inhalation	Spray	10 mg/m ³
Kaolin	Inhalation	Respirable dust	2 mg/m ³

Protective Equipment: When opening the container, preparing to measure, load or when applying: wear safety goggles, respirator, 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:	White to beige granule
Odour:	Slight
Odour threshold:	No information available.
pH	6.0 - 8.0 (1% aqueous)
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:	Not applicable.
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:	Harmful if swallowed.
Aspiration hazard:	Not classified.
Respiratory irritation:	Dust may be slightly irritating.
Skin corrosion/irritation:	Mild irritant.
Serious eye damage/irritation:	Serious 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. Hexazinone affects the blood and hematopoietic system.
Narcotic effects:	No components identified with narcotic effects.
Toxicological information:	<p><u>Terbutylazine (active)</u></p> <p>Oral, rat LD₅₀ 1503 mg/kg bw</p> <p>Dermal, rabbit LD₅₀ >2000 mg/kg bw</p> <p>Inhalation, rat LC₅₀ 4 hr >5.3 mg/L</p> <p><u>Hexazinone (active)</u></p> <p>Oral, guinea pig LD₅₀ 860 mg/kg bw</p> <p>Dermal, rabbit LD₅₀ >5278 mg/kg bw</p> <p>Inhalation, rat LC₅₀ 4 hr 3.94 mg/L</p>

12. ECOLOGICAL INFORMATION

Ecotoxicity:	<p>Product is classified as being very toxic to aquatic life and with long-lasting effects.</p> <p>Also very toxic to the soil environment and hazardous to terrestrial vertebrates.</p> <p>Not for use on food or animal feed crops, or applied to areas that may be grazed by food producing animals.</p>
Ecotoxicological information:	<p><u>Terbutylazine (active)</u></p> <p>Fish: Rainbow trout LC₅₀ (96 h) 3.4 mg/L</p> <p>Crustacean: <i>Mysidopsis bahia</i> EC₅₀ (48 h) 0.109 mg/L</p> <p>Algae: <i>Selenastrum capricornutum</i> EC₅₀ (5 d) growth 0.0032 mg/L</p> <p>Aquatic plant: <i>Lemna gibba</i> EC₅₀ (7d) growth, 0.0128 mg/L</p> <p>Bird: <i>Colinus virginianus</i> LD₅₀ >1236 mg/kg bw</p> <p><u>Hexazinone (active)</u></p> <p>Fish: Fathead minnow LC₅₀ (96 h) 78 mg/L</p> <p>Crustacean; <i>Daphnia magna</i> EC₅₀ (48 h) >85 mg/L</p> <p>Algae: <i>Selenastrum capricornutum</i> EC₅₀ (5 d) growth >0.072 mg/L</p> <p>Aquatic plant: <i>Lemna minor</i> EC₅₀ (7d) growth, 0.0128 mg/L</p> <p>Bird: <i>Colinus virginianus</i> LD₅₀ >2258 mg/kg bw</p>
Persistence and degradability:	<p>Terbutylazine is not readily biodegradable. DT₅₀ (typical) 72 days.</p> <p>Hexazinone is not readily biodegradable. DT₅₀ (typical) 105 days.</p>
Potential to be bioaccumulative:	Not expected to be bioaccumulative.
Mobility in soil:	Terbutylazine has low solubility. 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: 3077

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (Terbutylazine 63.75%, Hexazinone 11.25%)

DG Class: 9

Packing Group: III

Marine Pollutant: Yes

HAZCHEM 2Z

15. REGULATORY INFORMATION

New Zealand ACVM Act 1997, Exempt (forestry and non-cropland uses only)

See www.foodsafety.govt.nz for registration conditions

Approved pursuant to the HSNO Act 1996, Approval Code HSR101467

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 emergency response plan:	100 kg
Quantity for signage:	100 kg
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 kg

Additional controls

Application rate and interval:

- The maximum application rate of this substance, as specified by the Authority in accordance with clause 50(1) of the Hazardous Property Controls Notice, is 16.2 kg/ha (equating to 10.65 kg terbutylazine/ha and 1.86 kg hexazinone/ha).
- The maximum application frequency of this substance must not be more than two applications per calendar year, with a minimum interval period of six months between applications.

Application method restrictions:

- The substance must not be applied when wind speeds are less than 3 km/hr or more than 20 km/hr as measured at the application site.
- The substance must be used by ground-based methods only, except when used in forestry plantations, where it can also be used by aerial application.

- When applied using aerial methods, the nozzle must be set to coarse droplet quality spray, as defined by the American Society of Agricultural and Biological Engineers ASABE Standard (S572) or the British Crop Production Council guideline.

Additional labelling requirements:

The substance label must include the following statements, or words to the same effect:

- DO NOT apply when wind speeds are less than 3 km/hr or more than 20 km/hr as measured at the application site.
- WARNING: exposure to this substance may injure or kill susceptible agricultural crops and native vegetation. Care should be taken to avoid spray to neighbouring vegetation. It is recommended to conduct a site specific risk assessment that considers the potential movement of spray drift downwind to sensitive areas. This includes assessment of the weather conditions, application equipment, topography and species of plants downwind.
- WARNING: The use of this substance in areas where soils are permeable, particularly where the water table is shallow, may result in the substance leaching into ground water.
- This substance must be used by ground-based methods only, except when used in forestry plantations, where it can also be used by aerial application.
- When applied using aerial methods, the nozzle must be set to coarse droplet quality spray, as defined by the American Society of Agricultural and Biological Engineers ASABE Standard (S572) or the British Crop Production Council guideline.

16. OTHER INFORMATION

Version: 1.0

Issue Date: 22 August 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.