# SAFETY DATA SHEET **PATROL**



# 1: Identification of the Substance and Supplier

**Product Name PATROL Recommended Use** Insecticide

**Suppliers Details** Orion AgriScience Ltd

Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch, 8053

PO Box 39 071, Harewood, Christchurch, 8545

Web Address www.orionagriscience.co.nz **Email Address** orders@orionagriscience.co.nz

(03) 928 2386 (office hours), 0800 674 6627 (free phone) Telephone Number

0800 CHEMCALL (0800 243 622) (24 hours) **Emergency Telephone National Poison Centre** 0800 POISON (0800 764 766) (24 hours)

Date of Issue/Revision March 2025

# 2: Hazards Identification

#### **Hazard Pictograms**

#### Signal Words

# **Hazard Classes:**

Acute Toxicity (Oral Cat. 4)

Specific Target Organ Toxicity repeated exposure (Cat. 2) Hazardous to the aquatic environment acute (Cat. 1)

Hazardous to the aquatic environment chronic (Cat. 1)

Hazardous to soil organisms

Hazardous to terrestrial vertebrates Hazardous to terrestrial invertebrates

### **Precautionary Statements:**

Prevention

### TOXIC, ECOTOXIC, Keep Out of Reach of Children

### **Hazard Statements:**

H302 Harmful if swallowed

H373 May cause damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

H422 Toxic to the soil environment

H433 Harmful to terrestrial vertebrates

H441 Very toxic to terrestrial invertebrates

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read carefully and follow all instructions

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P273 Avoid release to the environment

Keep out of reach of children. Read label before use. Avoid contact with eyes and skin. Do not breathe in the vapour or spray mist. When mixing or applying, wear personal protection as described in section 8. Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water. Do not apply this substance to plants if bees are foraging, or the plants are in flower or part flower, and are likely to be visited by non-target invertebrate pollinators (including bees).

P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell

P330 Rinse mouth

P314 Get medical advice/attention if you feel unwell

P391 Collect spillage

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Response

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First aid measures described in section 4. Contain and collect spillage for disposal. In an emergency call 111, Police or Fire Brigade. For specialist advice in an emergency only,

call 0800 CHEMCALL (0800 243 6225) (24 hrs).

Storage Keep out of reach of childern

Disposal P501 Dispose of contents by using it in accordance with this label. Dispose of the

container via AgRecovery after triple rinsing.

3: Composition/ Information on Ingredients

Ingredient CAS No Content (% w/v)

 Clothianidin
 210880-92-5
 60

 Glycerin
 56-81-5
 <10</td>

Other ingredients Proprietary Remainder

# 4: First Aid Measures

If medical advice is needed, have product container or label at hand. If exposed or concerned, get medical advice. For advice call the National Poisons Centre or a Doctor.

Ingestion: Rinse mouth. Call a POISON CENTRE/doctor if you feel unwell.

**Skin Contact:** Wash with plenty of soap and water. Seek medical advice if irritation occurs.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do so. Continue rinsing.

Seek medical advice if irritation persists.

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice if feeling

unwell.

Workplace Facilities: Hand wash facility. Eye wash facility

Advice to Doctor:No specific antidote. Treat symptomaticallyNational Poison Centre0800 POISON (0800 764 766) (24 hours)

Symptoms of Exposure which could occur if this material is not handled in accordance with instructions:

**Ingestion:** Cramps, muscle weakness (including muscles necessary for breathing), twitching, dizziness, fatigue

**Skin Contact:** Prolonged or repeated contact may result in irritation

**Eye Contact:** May cause irritation **Inhalation:** May cause irritation

# 5: Fire-Fighting Measures

Fire/Explosion Hazard Non-Flammable

HAZCHEM Code 3Z ERP Guide No 47

**Extinguishing Media** Water spray, foam, dry chemical or C02. Avoid water jet.

**Fire Fighting Instructions**During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

Specific Hazards Arising from Fire No data available

# **6: Accidental Release Measures**

Personal Precautions Caution: Floors may be slippery if wet. Wear personal protective clothing and equipment as described in

section 8. Exclude non-essential people from the area.

**Environmental Precautions** Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.

Clean Up Absorb spillage with inert material such as spill kit, sand or cat litter. Collect and place in a sealable

container for disposal. Wash down affected area with water and detergent. Absorb and collect washings for

disposal. Dispose of safely to a suitable landfill.

# 7: Handling and Storage

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Storage:

Handling and Use:

Keep out of reach of children. Store in the original tightly closed container in a locked and secure area. Refer to Prevention statements in section 2 above. Treated seed must not be used for human or animal

consumption. Treated seed must be dyed a distinctive colour and labelled.

REI Not applicable

# 8: Exposure Controls / Personal Protection

Tolerable Exposure Limit None established

Workplace Exposure Standards Glycerin 10 mg/m3 (8 hr TWA)

**Engineering Controls**Adequate ventilation to, and correct siting of, seed treatment equipment. Local exhaust ventilation with

filtration (fixed or mobile) may be required, particularly at the sack filling station, to avoid mist or dust

entering the breathing zone.

Personal Protection:

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.

Eye Safety glasses/goggles when mixing or applying

**Skin** Cotton overalls snugly fitting at the neck, wrist and ankle, boots and waterproof gloves (e.g. PVC). Wear

waterproof apron or coverall if splashing could occur.

**Respiratory** Respirator (organic vapour and particulate matter) where inhalation of mist or dust cannot be avoided

through engineering controls.

Clean protective equipment after use

# 9: Physical and Chemical Properties

AppearanceRed LiquidOdourNon-specificOdour ThresholdDoes not applypH6.5 - 8.5Melting Point/Freezing PointDoes not applyBoiling Point>100°C

Flash Point Does not apply Flammability Does not apply **Upper/Lower Flammability Limits** Does not apply **Vapour Pressure** Does not apply **Vapour Density** Does not apply **Relative Density** 1.25 g/L (approx.) Solubility in Water Dispersible Partition Coefficient: n-octanol/water See section 12 **Auto ignition Temperature** Does not apply **Decomposition Temperature** Does not apply **Kinematic Viscosity** 800-1200 cSt

# 10: Stability and Reactivity

**Particle characteristics** 

**Stability** Stable under normal conditions

Hazardous Reactions None Expected

**Incompatibility** Avoid strong acids, bases and oxidizing agents

Does not apply

Hazardous Decomposition Products None Known

# 11: Toxicological Information

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This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

**Acute Oral Toxicity** LD50 > 50 mg/kgLD50 > 5000 mg/kg**Acute Dermal Toxicity Acute Inhalation Toxicity** LD50 > 5 mg/L

Skin corrosion/irritation Information not available Serious eye damage/Eye irritation Information not available Information not available Respiratory or skin sensitisation Germ cell mutagenicity Information not available Information not available Carcinogenicity **Reproductive Toxicity** Information not available Specific Organ Toxicity - Single Information not available

Specific Organ Toxicity - Repeated

exposure

Long term animal feeding studies on imidacloprid have noted effects on the liver.

Aspiration hazard Information not available

# 12: Ecological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

# The following information is presented in respect of the active ingredient:

**Ecotoxicity** Acute Oral LD50 (Japanese quail) 31 mg/kg

LC50 (96 hr) (Rainbow trout) 211 mg/l

LC50 (48 hr) (Daphnia) 85 mg/l

EC50 (5 d) (Algae) 33.2 mg/l

Toxic to bees (when in direct contact – not toxic as a seed treatment)

Persistence/degradability Biodegradable. DT50 (soil) 191 days

**Bioaccumulative Potential** Octanol-water partition coefficient LogP = 0.57 (low)

Soil Mobility Soil organic carbon water partitioning coefficient Koc = 156 (non-mobile)

**Environmental Exposure Limit:** None established

# 13: Disposal Considerations

Dispose of product by using it in accordance with the label. Waste product should be disposed of to a **Product** 

suitable landfill. For disposal of large quantities contact Orion AgriScience Ltd.

Container Dispose of to a suitable landfill or via AgRecovery. Do not burn. Do not use packaging for any other

purpose.

# 14: Transport Information

**Dangerous Goods** 

**UN Number** 3082

**Proper Shipping Name** PESTICIDE, LIQUID, TOXIC, N.O.S. (IMIDACLOPRID 60%)

9 Class **Subsidiary Class** None

Ш **Packing Group** 

**Additional Information** MARINE POLLUTANT

MTQ (Non-Commercial) 1000L 1 litre **Passenger Service Vehicle** 

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# **SAFETY DATA SHEET PATROL**

**Additional Requirements** 



15 Regulatory Information	
EPA Approval No	HSR000694
ACVM Registration No	P8437
Qualified Person	Required
Certified Handler	Not required
Workplace Only	Not required
Tracking	Not required
Record Keeping	Not required (unless > 3 L applied within 24 hours, and which is likely to leave the application area)
Site Requirements under EPA Notice	A hazardous substance location compliance certificate is required
and HSWHS Regs:	A hazardous area is not required
	• Separation distances for class 3 and class 6 substances to protected places and public places is
	applicable
	Fire extinguishers are not required
	Signage is required for more than 100 litres
	An emergency response plan is required for more than 100 litres
	Secondary containment is required for more than 100 litres

16: Other Information	
SDS review date	21 March 2025
Glossary	
ADE	Acceptable Daily Exposure – A daily dose, received via any route, below which no adverse effects are
	expected over a lifetime of exposure
ACVM	Agricultural Compounds and Veterinary Medicines group of the Ministry of Primary Industries
Cat.	GHS category
Ceiling	A concentration that should not be exceeded at any time during any part of the working day
Certified Handler	A qualification issued by a Compliance Certifier to handle and use particularly toxic substances (6.1A and
	6.1B)
DT50	Time (days) for 50% reduction in concentration

Segregation from incompatible substances (classes 1, 5) is applicable

Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

The partition coefficient of a substance between n-octanol and water, used as the Logarithm base 10

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	6.1B)
DT50	Time (days) for 50% reduction in concentration
EC50	Concentration required to produce an effect in 50% of organisms
<b>Environmental Exposure Limit</b>	Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.
EPA Notice	Hazardous Property Controls Notice 2017
ERP Guide	Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008
GHS	Globally harmonized system of classification and labelling of chemicals
<b>Hazardous Substance Location</b>	For locations storing hazard substances of certain classes above threshold quantities
<b>Compliance Certificate</b>	
Hazardous Area	A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009
HAZCHEM Code	Emergency action code for emergency services
HSWHS Regs	Health and Safety at Work (Hazardous Substances) Regulations 2017
LC50	Concentration that will kill 50% of organisms
LD50	Dose that will kill 50% or organisms
MTQ	Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road
	by the user
Notification	Advance notice given to neighbours and other affected parties, of details of proposed application, and
	other details as described

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**Octanol-Water Partition Coefficient** 

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form, as an indicator that a substance may bioaccumulate

PDE Permitted Daily Exposure - A daily dose below which no adverse effects are expected over a lifetime of

exposure

Protected Place Residential properties, schools, hospitals, kindys, factories, shops, warehouses, etc., and other places where

people assemble

**Public Place**A place frequented by the public, including roads (does not include private property)

Qualified Person A requirement for the loader, contractor or person applying the product to hold a qualification such as a

GROWSAFE Certificate, Unit Standard 21563, etc.

**Record Keeping** Includes a spray diary or other record of application

**REI** Restricted Entry Interval – The length of time after application before entry into the treated area is

permitted without the use of protective equipment. For indoor environments, this time period commences

once ventilation after treatment begins.

Segregation Certain classes of substances must not be in contact with, and must be stored separately from, certain

other classes as specified in HSWHS Regs

Separation Distances The distances specified in Part 11 and Part 13 of HSWHS Regs between storage and/or use of hazardous

substances and protected places and/or public places

**Signage** Positioned at entrances to commercial premises providing information on the hazardous substances

present

Soil Adsorption Coefficient (Kd)

The ratio of the concentrations of a substance adsorbed onto a solid sorbent to that dissolved in a liquid

phase. The higher the value the less mobile the chemical is in soil

Soil Organic Carbon-Water

The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the

Partitioning Coefficient (Koc) soil. The higher the value the less mobile the chemical is in soil

STEL Short term exposure level – 15 minute time weighted average

**Tolerable Exposure Limit**Maximum concentration limit of a substance above which persons must not be exposed

**Tracking** For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use

of the product

TWA Time weighted average calculated over an 8 hour working day

exposed

Workplace Only

A product that is restricted to a workplace only and under the supervision of a certified handler

Please Note

Users must ensure that the most up to date version of this safety data sheet is used.

This Safety Data Sheet summarises information on this product, and how to safely handle and use the product. Each user should familiarise themselves with the product label and Safety Data Sheet, and consider the information in the context of how the product will be handled and used, including in conjunction with other products. Orion AgriScience Ltd assumes no responsibility for the accuracy, completeness or suitability of this information. The user is responsible for determining the suitability and accuracy of this information for their particular purposes.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.