

1: Identification of the Substance and Supplier

Product Name	CONVOY
Recommended Use	Fungicide
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
Telephone Number	(03) 928 2386 (office hours), 0800 674 6627 (free phone)
Emergency Telephone	0800 CHEMCALL (0800 243 622) (24 hours)
National Poison Centre	0800 POISON (0800 764 766) (24 hours)
Date of Issue/Revision	November 2019

2: Hazards Identification

Hazard Pictograms



Signal Word:

Danger

Hazard Classes:

Hazard Statements:

- 6.1D Acute Toxicity (Oral Cat. 4)
- 6.1D Acute Toxicity (Inhalation Cat. 4)
- 6.3A Skin Irritation (Cat. 2)
- 6.4A Eye Irritation (Cat. 2)
- 6.9A Target Organ Toxicity (Cat. 1)
- 9.1A Aquatic Ecotoxicity (Cat. 1)
- 9.3B Terrestrial Vertebrate Ecotoxicity

- Harmful if swallowed
- Harmful if inhaled
- Causes skin irritation
- Causes serious eye irritation
- Causes damage to organs through prolonged or repeated exposure
- Very toxic to aquatic organisms with long lasting effects
- Toxic to terrestrial vertebrates

Precautionary Statements:

Prevention

Keep out of reach of children. Read label before use. Use only outdoors. Avoid contact with eyes and skin. Do not breathe in the vapour or spray mist. Do not eat, drink or smoke during use. Wash hands after use. When mixing, loading or applying, wear personal protection as described in section 8. Do not take contaminated equipment or clothing off site. Wash contaminated clothing before reuse. 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.

Response

First aid measures described in section 4. Contain and collect spillage for disposal. In a transport emergency call 111, Police or Fire Brigade. For specialist advice in an emergency only, call 0800 CHEMCALL (0800 243 6225) (24 hrs).

3: Composition/ Information on Ingredients

Ingredient	CAS No	Content (% w/v)
Pyraclostrobin (active ingredient)	175013-18-0	25
Hydrocarbon Liquid	64742-95-5	30 - 60
N,N-Dimethyldecanamide	14433-76-2	10 - 30
Calcium dodecylbenzene sulfonate	26264-06-2	10 - 30
Other ingredients	Proprietary	Remainder

4: First Aid Measures

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

Ingestion:	Rinse mouth. Seek medical advice if feeling unwell.
Skin Contact:	Wash with plenty of soap and water. Seek medical advice if irritation or rash 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 symptomatically. If ingested, hydrocarbon solvent may be aspirated into the lungs and cause chemical pneumonitis.
National Poison Centre	0800 POISON (0800 764 766) (24 hours)

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

Ingestion:	Nausea, vomiting, diarrhoea and gastrointestinal discomfort.
Skin Contact:	Irritation. Prolonged or repeated contact may result in degreasing of the skin and dermatitis.
Eye Contact:	Irritation.
Inhalation:	Irritation, breathing difficulties.

5: Fire-Fighting Measures

Fire/Explosion Hazard	Non-Flammable (but may be combustible in a fire)
HAZCHEM Code	3Z
ERP Guide No	47
Extinguishing Media	Water spray, foam, dry chemical or CO ₂
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. Leave and/or avoid entering confined spaces. Wear personal protective clothing and equipment as described in section 8. Respiratory protection (with organic vapour cartridge) required for any spill other than minor. Keep bystanders away.
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

Storage:	Keep out of reach of children. Store in the original tightly closed container in a locked and secure area that is well ventilated. Keep cool.
Handling and Use:	Refer to Prevention statements in section 2 above. Exclude people and animals from the application area, both during application and for the duration of the REI.
REI	Until spray has dried.

8: Exposure Controls / Personal Protection

Tolerable Exposure Limit	None established.
Workplace Exposure Standards	None established (Use lowest practicable level).
Engineering Controls	Select spray application method and equipment to minimize exposure to operator and bystanders.

Personal Protection:

Eye	Safety glasses/goggles when mixing or applying.
Skin	Chemical resistant coveralls with hood tightly fitting at head, wrists and ankles (e.g., Tychem F suit), chemical resistant boots and chemical resistant gloves (barrier multilayer, nitrile, neoprene).
Respiratory	Respirator (organic vapour and particulate matter) when mixing or applying.

Clean protective equipment after use

9: Physical and Chemical Properties

Appearance	Clear Amber Liquid
Odour	Solvent like
Odour Threshold	No data available
pH	5.0 – 7.0 (1% v/v)
Melting Point/Freezing Point	No data available
Boiling Point	No data available
Flash Point	>93°C
Upper/Lower Flammability Limits	No data available
Vapour Pressure	No data available
Vapour Density	No data available
Relative Density	1.05 g/ml (approx.)
Solubility in Water	Emulsifiable
Auto ignition Temperature	No data available
Decomposition Temperature	No data available
Kinematic Viscosity	No data available

10: Stability and Reactivity

Stability	Stable under normal conditions
Hazardous Reactions	None Known
Incompatibility	None Known
Hazardous Decomposition Products	None Known

11: Toxicological Information

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 300 - 2000 mg/kg
Acute Dermal Toxicity	LD50 > 2000 mg/kg
Acute Inhalation Toxicity	LC50 1 - 5 mg/L
Skin Irritant/Corrosive	Skin Irritant
Eye Irritant/Corrosive	Irritating
Sensitisation Effects	None
Mutagenic Effects	None
Carcinogenic Effects	None
Reproductive Effects	None
Specific Organ Toxicity	Long term animal feeding studies on N,N-Dimethyldecanamide noted treatment related effects including vomiting, salivation, and liver, kidney and pancreas weights.

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	<ul style="list-style-type: none"> Acute Oral LD50 (Rat) >5000 mg/kg
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- LC50 (96 hr.) (Trout) 0.006 mg/l
- EC50 (48 hr.) (Daphnia) 0.016 mg/l
- Algae EC50 (72 hr.) > 0.843 mg/l
- Non toxic to bees

Persistence/degradability

Biodegradable. DT50 (soil) 42 days (typical)

Bioaccumulative Potential

Octanol-water partition coefficient

LogP = 3.99 (high)

Soil Mobility

Soil organic carbon water partitioning coefficient

Koc = 9304 (non-mobile)

Environmental Exposure Limit:

None established.

13: Disposal Considerations

Product	Dispose of product by using it in accordance with the label. Do not burn. For disposal of large quantities contact Orion AgriScience Ltd.
Container	Dispose of via AgRecovery after triple rinsing (use the rinsate for spraying), or to a suitable landfill. Do not burn. Do not use packaging for any other purpose.

14: Transport Information

Dangerous Goods	
UN Number	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRACLOSTROBIN 25%)
Class	9
Subsidiary Class	None
Packing Group	III
Additional Information	MARINE POLLUTANT
MTQ (Non-Commercial)	1000 litres
Passenger Service Vehicle	No restriction

15 Regulatory Information

EPA Approval No	HSR000652
ACVM Registration No	P9703
Qualified Person	Required
Certified Handler	Not required
Workplace Only	No
Tracking	Not required
Record Keeping	Required
Notification	Not required
Site Requirements under EPA Notice and HSWHS Regs:	<ul style="list-style-type: none"> • A hazardous substance location compliance certificate is not required • A hazardous area is not required • Separation distances for class 3 and class 6 substances to protected places and public places is not 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 • Separation/Segregation from incompatible substances (classes 1, 2, 3.2, 4 and 5) is not required
Additional Requirements	Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans.

16: Other Information

Glossary

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
EC50	Concentration required to produce an effect in 50% of organisms
Environmental Exposure Limit	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
Hazardous Substance Location	For locations storing hazard substances of certain classes above threshold quantities
Compliance Certificate	
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% of 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
Octanol-Water Partition Coefficient	The partition coefficient of a substance between n-octanol and water, used as the Logarithm base 10 form, as an indicator that a substance may bioaccumulate
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.
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 Partitioning Coefficient (Koc)	The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the 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

SAFETY DATA SHEET

CONVOY



TWA	Time weighted average calculated over an 8 hour working day
Wide Dispersive Use	A method of application involving equipment such as boom sprayers, mist blowers, vine sprayers, row sprayers, etc., as well as aerial application. Hand gunning within 30m of a property boundary is also classed as wide dispersive use. Knapsack sprayers are not classed as wide dispersive use
Workplace Exposure Standard	An occupational health standard limiting concentrations of specified substances to which persons are 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.