

Safety Data Sheet

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product Name	Falcon
Product Use	Insecticide
Restriction of Use	Refer to Section 15
New Zealand Supplier	Agrisource (2000) Limited
Address	45 Kitchener Road, Pukekohe, Auckland
Telephone	+64 9 237 0422
Emergency No:	0800 764 766 (National Poison Centre)
Date of SDS Preparation	18 May 2026

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No	HSR101027
-----------------	-----------

Pictograms



Signal Word	Warning
-------------	---------

GHS Classification and Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Hazardous to terrestrial vertebrates	H433	Hazardous to terrestrial vertebrates.

Prevention Code	Prevention Statement
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
None allocated	Keep out of reach of children. Store in original container tightly closed and in a locked dry, cool, well-ventilated area, away from food stuffs, seeds and fertilisers. Storage must be in accordance with the current version of the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS Number
Flonicamid	50	158062-67-0
Other Ingredients	To 100%	-

Section 4. First Aid Measures

Routes of Exposure	
If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If on Skin	Rinse skin with soap and water. If skin irritation occurs: Get medical advice/ attention.
If Swallowed	Rinse mouth. DO NOT induce vomiting unless directed to do so by a medical personnel. Never give anything to the mouth of an unconscious person. Call a POISON CENTER or doctor/physician if needed.
If Inhaled	Remove person to fresh air. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.
Most important symptoms and effects, both acute and delayed	
Symptoms	Causes serious eye irritation.
Advice to Physician	Treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	This product is non-flammable, non-explosive and is non-combustible.
Hazards from products	The major hazards in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is a little risk of explosion from this product if commercial quantities are involved in a fire. This product, if scattered, may form flammable or explosive dust clouds in air.
Suitable Extinguishing media	Water spray, foam, CO2 or dry chemical.
Precautions for firefighters and special protective clothing	Full protective clothing and self-contained breathing apparatus. Keep up wind to avoid inhalation of gases, vapours, fumes and smoke. Do not allow washings to reach sewage or effluent systems.
HAZCHEM Code	None Allocated.

Section 6. Accidental Release Measures

For emergency responders	For appropriate personal protective equipment (PPE), refer Section 8. Clear area of unprotected personnel.
Environmental precautions	Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.
Methods and material for containment and cleaning up	Sweep up solids without generating dust (use water to dampen). Contain and absorb liquid spills with insert material and place into a waste container. Dispose as per Section 13.

Section 7.

Handling and Storage

Precautions for Handling

- Wash hands thoroughly after handling.
- Wear protective clothing, gloves and goggles. See section 8.
- Avoid release to the environment.
- Avoid contact with eyes and skin and inhalation of spray mist.
- Avoid spray drift to reduce harmful effects on beneficial insects in nearby habitats.
- Must not be applied into or onto water.
- Do not allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing should be laundered after each day's use.
- Do not apply this product to any plant likely to be visited by bees at the time of application; or immediately after application until spray has dried; or in areas where bees are foraging.
- Care should be taken when using this substance in Integrated Pest Management systems as this substance may affect some beneficial insects.

Precautions for Storage

- Store away from incompatible materials listed in Section 10.
- Store in the closed, original container in a cool, well-ventilated area.
- Do NOT store for prolonged periods in direct sunlight.
- Store away from children, animals, food, feedstuffs, seed and fertilizers.

Section 8.

Exposure Controls/Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA	STEL
None assigned. No exposure limits (WES, or EELs) have been specifically assigned for this product.	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15 minute average exposure standard. Applies to any 15 minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices FEB 2025 15TH EDITION.

Engineering Controls

Avoid generation of dust when handling solid.

Personal Protection Equipment



Eyes

Wear safety goggles.

Skin

Wear waterproof gloves, cotton overalls (buttoned to the neck and wrist), washable hat and boots.

Respiratory

If dust generation is unavoidable, use forced draft to keep dust away from operator, or wear suitable dust respirator.

General

Do not eat, drink or smoke while using.
Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

Section 9. Physical and Chemical Properties

Appearance	Solid granules
Colour	Light brown
Odour	Odourless
Odour Threshold	Not available.
pH	8.0 (1 % solution)
Boiling Point	Not available.
Melting Point	157.5 °C (flonicamid)
Freezing Point	Not available.
Flash Point	Not flammable.
Flammability	Not available.
Upper and Lower Explosive Limits	Not available.
Vapour Pressure	2.55×10^{-3} mPa (flonicamid, 25 °C)
Vapour Density	Not available.
Specific Gravity or density	0.71 g/m ³ (Pour density)
Solubility	Disperses in water.
Partition Coefficient	Kow LogP = 0.30 (flonicamid)
Auto-ignition Temperature	Not available.
Decomposition Temperature	Not available.
Kinematic Viscosity	Not available.

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal conditions of use.
Possibility of hazardous reactions	No data available.
Conditions to Avoid	This product should be kept in a cool place, preferably below 30 °C. Containers should be kept dry. Keep containers and surrounding areas well ventilated. Keep away from heat, flames and sparks. Keep away from sources of sparks or ignition. Protect this product from light.
Incompatible Materials	No data available.
Hazardous Decomposition Products	Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form hydrogen fluoride gas and other compounds of fluorine. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Section 11. Toxicological Information

Acute Effects

Oral	Not applicable. LD50: >2000 mg/kg (rat)
Dermal	Not applicable. LD50: >2000 mg/kg (rat)
Inhalation	Not applicable. LC50 = >5.36 mg/L (rat)
Eye	Causes serious eye irritation.
Skin	Not applicable.

Chronic Effects

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

General	Hazardous to terrestrial vertebrates.
Persistence and degradability	This product is biodegradable.
Bioaccumulation	This product is not bioaccumulative.
Mobility in Soil	No data available

Ecotoxicity		LC50 (96 hr) for Onchorhynchus mykiss (Rainbow Trout) >100 mg/L for formulated product.
	Fish	The following information is for flonicamid technical: LC50 (96 hr) > 100 mg/L (bluegill sunfish) LC50 (96 hr) > 100 mg/L (rainbow trout) LC50 (96 hr) > 120 mg/L (sheepshead minnow) LC50 (96 hr) > 121 mg/L (mysid shrimp) EC50 (96 hr) > 128 mg/L (eastern oyster)
	Cymoxanil	
	Daphnia	EC50 (48 hr)(Daphnia Magna) >100 mg/L for formulated product.
	Algae	No data available.
	Birds	Acute oral LD50 for male and female quail >2000 mg/kg for flonicamid.
	Bees	LD50 (contact) >100 µg/bee, (oral) >60.5 µg/bee for flonicamid.
	Earthworm	No data available.
Waterways	Do not allow to enter waterways.	

Section 13. Disposal Considerations

Disposal Method Dispose of this product only by using according to the label, at an approved treatment facility.

Container Disposal Ensure the container is empty. Triple or preferably pressure rinse the container before disposal. Add rinsate to spray tank mix. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. Do NOT reuse this container for any other purpose.

Recycling



Precautions or methods to avoid Avoid release to the environment.

Section 14. Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2020

Section 15. Regulatory Information

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No HSR101027

HSW (HS) Regulations 2017 **Trigger Quantity**

Location Certificate Not required

Signage Trigger Quantities (Schedule 3) Not required

Emergency Response Plan (Schedule 5) Not required

Secondary Containment (Schedule 5) Not required

Tracking (Schedule 26) Not required.

Certified Handlers Not required.

HSNO Additional Controls (Restrictions of use)

Refer to EPA website for full control details www.epa.govt.co.nz

Regulation 77A: Must not be applied when wind speeds are less than 3 km/h or more than 20 km/hr as measured at the application site.

Regulation: 77A:

- Must not be applied into or onto water.
- Do not allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing should be laundered after each day's use.
- Do not apply this product to any plant likely to be visited by bees at the time of application; or immediately after application until spray has dried; or in areas where bees are foraging.
- Care should be taken when using this substance in Integrated Pest Management systems as this substance may affect some beneficial insects.

ACVM Act and Regulations

Registration Number P010415

See www.foodsafety.govt.nz for registration Conditions

Section 16. Other Information

Glossary

Cat	Category
EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC50	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD50	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References

EPA Hazardous Substances (Safety Data Sheets) Notice 2017
Workplace Exposure Standards and Biological Exposure Indices FEB 2025 15th edition.
Assigning a hazardous substance to a HSNO Approval (Aug 2013).
Transport of Dangerous goods on land NZS 5433:2020
HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the Agrisource (2000) Limited, if further information is required.

Issue Date

18 May 2026

Review Date

18 May 2031

SDS Prepared by

Technical Compliance Consultants (NZ) Ltd
phone 0064 9 475 5240
www.techcomp.co.nz