


Infosafe No™ 3NV5F	Issue Date : October 2020	ISSUED by NUFARMNZ
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 Product Name **MAINMAN**

1. Identification

GHS Product Identifier	MAINMAN
Product Code	03650
Product Type	Insecticide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency phone number	0800 651 911
E-mail Address	nzinfo@nufarm.com
Recommended use of the chemical and restrictions on use	For the control of aphids and psyllids (TPP) in potatoes.
Other Information	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. Hazard Identification

GHS classification of the substance/mixture	Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.
Signal Word (s)	WARNING
Hazard Statement (s)	H319 Causes serious eye irritation. H433 Harmful to terrestrial vertebrates.
Precautionary statement – General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
Pictogram (s)	Exclamation mark 
Precautionary statement – Prevention	P264 Wash contaminated skin thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement – Response	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.
Precautionary statement – Disposal	P501 Dispose of contents/container to a suitable landfill. Triple or preferably pressure rinse the container before disposal. Add rinsate to spray tank mix.
Other Information	6.4A Eye Irritant, 9.3C Terrestrial vertebrate toxicant.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Flonicamid	158062-67-0	50 %
	Non hazardous components		to 100%

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4. First-aid measures

First Aid Measures	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical attention.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
Eye contact	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses, if present and easy to do. Seek medical assistance even if there are no immediate symptoms.
First Aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water spray, foam, CO2 or dry chemical.
Hazards from Combustion 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.
Special Protective Equipment for fire fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind to avoid inhalation of gases, vapours, fumes and smoke. Do not allow washings to reach sewage or effluent systems.
Decomposition Temp.	Data not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Spills & Disposal	Wear protective clothing. Clear area of unprotected personnel. Sweep up solids without generating dust (use water to dampen). Contain and absorb liquid spills with inert material and place in waste containers. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Avoid discharge to the aquatic environment.

7. Handling and storage

Precautions for Safe Handling	Do not breathe dust, spray, mists. CERTIFIED HANDLER : Is not required. TRACKING: Is not required. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause harmful effects on beneficial insects in nearby habitats.
Conditions for safe storage, including any incompatibilities	Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

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Other Information Stores containing 10,000 kg of MAINMAN require signage.
 Always read the label and any attached leaflet before use.
 Aggregate Storage Volume Thresholds:
 When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

8. Exposure controls/personal protection

Occupational exposure limit values The following ADE and PDE values have been set for flonicamid
 ADE = 0.073 mg/kg bw/day
 PDE_{food} = 0.0511 mg/kg bw/day
 PDE_{drinking water} = 0.0146 mg/kg bw/day
 PDE_{other} = 0.0073 mg/kg bw/day
 No EEL's have been set for this substance.

Appropriate engineering controls Handle in well ventilated areas, generally natural ventilation is adequate.
 Avoid generation of dust when handling solid. If dust generation is unavoidable, use forced draft to keep dust away from operator, or wear suitable dust respirator.

Personal Protective Equipment When opening the container, preparing spray and using the prepared spray wear safety goggles, washable hat, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.

Hygiene Measures 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.

9. Physical and chemical properties

Form Solid

Appearance Light brown granules.

Odour None.

Decomposition Temperature Data not available.

Melting Point 157.5°C (flonicamid)

Boiling Point Not applicable

Solubility in Water Disperses in water.

pH 8.0 (1% solution)

Vapour Pressure 2.55 x 10⁻³ mPa (flonicamid, 25°C)

Vapour Density (Air=1) Data not available

Partition Coefficient: n-octanol/water Kow LogP =0.30 (flonicamid)

Density 0.71 g/m³ (Pour density)

Flash Point Data not available.

Flammability Data not available.

Auto-Ignition Temperature Not applicable

Explosion Properties Not explosive

Oxidising Properties Not oxidising

Kinematic Viscosity Data not available.

Other Information Water Dispersible Granule.

10. Stability and reactivity

Chemical Stability Stable under normal conditions of handling and storage.

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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	Data not 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.
Possibility of hazardous reactions	No data available..
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Toxicology Information	No harmful effects are expected if the precautions on the label and this SDS are followed.
Acute Toxicity - Oral	LD50 (rat) >2000 mg/kg for MAINMAN
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg for MAINMAN
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >5.36 mg/l for MAINMAN
Eye	Causes serious eye irritation.
Respiratory sensitisation	No Data available.
Skin Sensitisation	Product is not a skin sensitiser.
Germ cell mutagenicity	No data available.
Carcinogenicity	No Data available.
Reproductive Toxicity	No Data available.
STOT-single exposure	No Data available.
Aspiration Hazard	Not relevant. Solid.
Mutagenicity	Data not available.
Skin corrosion/irritation	Not a skin corrosive.
Other Information	The Australian Acceptable Daily Intake (ADI) for flonicamid for a human is 0.025 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 2.5 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Aust Govt Dept. of Health, Office of Chemical Safety, 'ADI List', March 2020).

12. Ecological information

Persistence and degradability	This product is biodegradable.
Bioaccumulative Potential	This product is not bioaccumulative.
Other Precautions	Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

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Environmental Protection	Spray drift can cause damage, read the label for more information.
Acute Toxicity - Fish	LC50 (96hr) for Onchorhynchus mykiss (Rainbow Trout) >100 mg/l for formulated product. The following information is for Flonicamid Technical: LC50 (96-hour) > 100 mg/L (bluegill sunfish) LC50 (96-hour) > 100 mg/L (rainbow trout) LC50 (96-hour) > 120 mg/L (sheepshead minnow) LC50 (96-hour) > 121 mg/L (mysid shrimp) EC50 (96-hour) > 128 mg/L (eastern oyster)
Acute Toxicity - Daphnia	EC50 (48hr) (Daphnia Magna) >100mg/L for formulated product.
Acute Toxicity - Other Organisms	Birds: Acute oral LD50 for male and female quail >2000 mg/kg for flonicamid. Bees: LD50 (contact) >100µg/bee, (oral) >60.5 µg/bee for flonicamid.

13. Disposal considerations

Product Disposal	To avoid disposal all attempts should be made to utilise the product completely in accordance with it's registered use. Dilute unusable product according to the label and pour onto fallow land. Prevent the product entering natural water sources.
Container Disposal	Ensure container is completely empty. Crush and bury in a suitable landfill. Dispose of product only by using according to the label, or at an appropriate landfill.

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
Storage and Transport	Not classified as Dangerous Goods for transport in New Zealand.
Other Information	Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

15. Regulatory information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P8742 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR101027 See www.epa.govt.nz for approval controls.
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16. Other Information

Date of preparation or last revision of SDS	N/A. First Issue.
Contact Person/Point	IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE 24Hr Tollfree Emergency No: 0800 651 911 24Hr Emergency No: National Poisons Centre Phone: 0800 764 766 ...End Of MSDS...

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