

Infosafe No™ 3NV3J Issue Date : August 2024 ISSUED by NUFARMNZ

Product Name **SENATOR® 600**

Section 1 - Identification

Product Identifier	SENATOR® 600
Product Code	01752
Product Type	Insecticide
Company Name	Nufarm NZ
Address	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency Phone Number	0800 651 911
Email	nzinfo@nufarm.com
Recommended uses and any restrictions on use or supply	An undyed seed dressing insecticide for use on cereals, forage brassicas, grass seed, maize, sweetcorn, potatoes, pumpkins and winter squash.
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.

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture	Acute oral toxicity Category 3 Skin sensitisation Category 1 Specific target organ toxicity (repeated exposure) Category 2 Hazardous to soil organisms Hazardous to terrestrial vertebrates Hazardous to terrestrial invertebrates Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1
Signal Word (s)	DANGER
Hazard Statement (s)	H301 Toxic if swallowed H317 May cause an allergic skin reaction H373 May cause damage to liver through prolonged or repeated exposure H410 Very toxic to aquatic life with long lasting effects H421 Very toxic to soil environment H431 Very toxic to terrestrial vertebrates H441 Very toxic to terrestrial invertebrates
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)	Skull and crossbones, Health hazard, Environment



Precautionary Statement – Prevention	P264 Wash hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P273 Avoid release to the environment.
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Precautionary Statement – Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P330 Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P314 Get medical advice/attention if you feel unwell.
P391 Collect spillage.
P405 Store locked up.

Precautionary Statement – Storage

Precautionary Statement – Disposal

P501 Dispose of contents/container to an approved landfill.

Section 3 - Composition and Information on Ingredients

Chemical Characterization

Liquid

Ingredients	Name	CAS	Proportion
	Imidacloprid	138261-41-3	600 g/L
	Ingredients determined to be non-hazardous	-	0-10 %
	Water	-	Balance

Section 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 Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.

First-aid Facilities Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

Advice to Doctor Treat symptomatically.
Has a nicotine like effect.
Check blood pressure and pulse rate frequently, as bradycardia and hypotonia are possible. Provide supportive measures for respiratory function and cardiac action. Give artificial respiration if signs of paralysis appear. Additional therapeutic measures involve elimination of the substance from the body or acceleration of its excretion (gastric lavage, saline laxatives, activated charcoal).
Contra-indications:
Absorption promoting agents such as alcoholic beverages and milk.

Section 5 - Firefighting Measures

Suitable Extinguishing Media Water fog, foam, carbon dioxide or dry chemical.

Hazards from Combustion Products May emit toxic fumes of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides if involved in fires or exposed to extreme heat.

Special protective equipment for fire-fighters Full protective clothing and self-contained breathing apparatus.

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Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Specific hazards arising from the chemical	Considered low risk due to water content, however upon evaporation of water the product is combustible.
Hazchem Code	2Z
Decomposition Temperature	Information is not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

Section 6 - Accidental Release Measures

Spills and Disposal	Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with sand, soil or absorbent granules. 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	Prevent from entering drains, waterways or sewers.

Section 7 - Handling and Storage

Precautions for Safe Handling	The person mixing or applying SENATOR 6000 must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'. It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017. Do not breathe vapours and spray. Avoid contact with skin or eyes. This product must not be applied onto or into water. CERTIFIED HANDLER: Is not required. TRACKING: Is not required. RESTRICTED TO WORKPLACE : A person may use and store the substance only in a workplace. A person may supply the substance only to: (a) a workplace under the management and control of a PCBU, and only if the person has received written notification that a competent person at the workplace will accept responsibility for the substance; or (b) an authorised person, if the person has received written notification that the authorised person will accept responsibility for the substance. RECORD KEEPING: Records of use, as described in NZS 8409 Management of Agrichemicals must be kept if 3 litres or more of SENATOR 6000 is used within 24 hours. Records must be kept for a minimum of 3 years from application date. A person who supplies the substance must retain the following written records for 12 months from the date of transfer of the substance: (a) the product name or chemical name of the substance transferred; and (b) the identity and address of the competent person or authorised person that received the transferred substance; and (c) the date on which the transfer occurred; and (d) a copy of the notification. A competent person means: (a) a certified handler; or (b) a person who has received information, instruction, and training in accordance with regulation 4.5. An authorised person means a person who holds a permission granted by the Authority under section 95A of the Act to use the substance in a place that is not a workplace.
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. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100L of SENATOR 600 require secondary containment and

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Other Information	are subject to signage, and more than 100L require emergency response plans. 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.
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Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL)	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
Appropriate Engineering Controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	When opening the container, preparing spray and using the prepared spray wear safety goggles, 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.

Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	White to off-white liquid.
Odour	Information is not available.
Decomposition Temperature	Information is not available.
Melting Point	144°C for imidacloprid.
Solubility in Water	Disperses in water.
Specific Gravity	1.14
pH	8.3 (@ 1%)
Vapour Pressure	4 x 10 ⁻⁷ mPa (20°C) for imidacloprid.
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Viscosity	500 - 2500cps @ 20°C
Partition Coefficient: n-octanol/water	Kow LogP = 0.57 (21°C) for imidacloprid.
Flash Point	Information is not available.
Flammability	Not flammable.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Initial Boiling Point and Boiling Range	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Relative Density	1.54 (23°C) for imidacloprid.

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Other Information (SC) Suspension Concentrate

Section 10 - Stability and Reactivity

Chemical Stability Stable under normal conditions of handling and storage.

Possibility of Hazardous Reactions Keep away from strong oxidising agents.

Hazardous Polymerization Hazardous polymerisation will not occur.

Section 11 - Toxicological Information

Acute Toxicity - Oral LD50 (male and female rats) c.450 mg/kg for imidacloprid.

Acute Toxicity - Inhalation LC50(4h) for rats > 5323mg/m³ for imidacloprid.

Acute Toxicity - Dermal LD50 (24h) (rat) >5,000 mg/kg for imidacloprid.

Skin Not irritating to skin (rabbits) for imidacloprid.

Corrosion/Irritation

Serious Eye Damage/Irritation Not irritating to eyes for imidacloprid.

Skin Sensitisation May cause an allergic skin reaction.

Germ Cell Mutagenicity Information is not available.

Carcinogenicity Information is not available.

Reproductive Toxicity Information is not available.

STOT - Single Exposure Information is not available.

STOT - Repeated Exposure May cause damage to liver through prolonged or repeated exposure.

Aspiration Hazard May cause damage to liver through prolonged or repeated exposure.

Subchronic/Chronic Toxicity Target organ - liver (hepatotoxicity/alimentary system)
NOAEL 5.7mg/kg bw/day for male rats

Other Information The Australian Acceptable Daily Intake (ADI) for imidacloprid for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 6 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 APVMA, 'ADI List', Edition 2/2024).

Section 12 - Ecological Information

Persistence and Degradability The half-life in water is >31 days at pH5, 7 and 9.

Mobility Information is not available.

Bioaccumulative Potential Environmental DT50 c. 4h for imidacloprid.

Acute Toxicity - Fish LC50 (96hr) for rainbow trout is 211 mg/l for imidacloprid.

Acute Toxicity - Daphnia LC50 (48hr) for daphnia magna is 85 mg/l for imidacloprid.

Acute Toxicity - Algae ErC50 (72h) for Pseudokirchneriella subcapita >100mg/L for imidacloprid.

Acute Toxicity - Other Organisms Birds: LD50 for Japanese quail is 31mg/kg for imidacloprid.
Bees: Harmful to honeybees by direct contact, but safe to bees when exposure is avoided (e.g. no spray application during flowering, seed treatment) for imidacloprid.
Worms: LC50 for Eisenia foetida 10.7mg/kg dry soil for imidacloprid.

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Section 13 - Disposal Considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

Section 14 - Transport Information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
UN Number	2902
Proper Shipping Name	PESTICIDE, LIQUID, TOXIC, N.O.S. - (imidacloprid)
Hazard Class	6.1
Hazchem Code	2Z
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	34
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
IMDG EMS	F-A, S-F
Other Information	Do not carry more than 1L of SENATOR 600 on a passenger service vehicle. 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.

Section 15 - Regulatory Information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P7488 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR100915 See www.epa.govt.nz for approval controls.
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Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS	May 2019.
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
Revisions Highlighted	5 yearly review carried out. Various changes and updates made to the document to comply with GHS7. ...End Of MSDS...

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