

Infosafe No™ 3NUAT	Issue Date : October 2024	ISSUED by NUFARMNZ
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 Product Name **suSCon® GREEN**

Section 1 - Identification

Product Identifier	suSCon® GREEN
Product Code	03763
Product Type	Organophosphate 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	Controls grass grub and manuka beetle in turf, cereals, cloverseed and pasture, also black vine weevil in ornamentals using controlled release technology.

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture	Acute oral toxicity: Category 4 Reproductive toxicity: Category 2 Specific target organ toxicity - repeated exposure: Category 1 Hazardous to the terrestrial environment: Hazardous to terrestrial vertebrates Hazardous to the terrestrial environment: 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)	H302 Harmful if swallowed. H361 Suspected of damaging fertility or the unborn child. H372 Causes damage to the nervous system through prolonged or repeated oral exposure. H410 Very toxic to aquatic life with long lasting effects. H433 Harmful 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 carefully and follow all instructions.
Pictogram (s)	Health hazard, Environment



Precautionary Statement – Prevention	P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Precautionary Statement – Response	P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P308+P313 IF exposed or concerned: Get medical advice/attention. P314 Get medical advice/attention if you feel unwell. P330 Rinse mouth. P391 Collect spillage.
Precautionary Statement – Storage	P405 Store locked up.

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Precautionary Statement – Disposal P501 Dispose of contents/container to an approved landfill.

Section 3 - Composition and Information on Ingredients

Chemical Characterization Solid

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Chlorpyrifos pigment	2921-88-2	100g/kg
	Ingredients determined to be non-hazardous	N/A	<10%
		-	<90%

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	Initial Treatment: Atropine is the specific antidote. Large amounts are required in organophosphate poisoning. An initial trial dose of atropine 2mg intravenously should be given and repeated every 15 minutes until an atropine effect is noted (dilated pupils, dry mouth, flushing of the skin). Reduce to a schedule that maintains full atropinisation for at least 24 hours. The dose and frequency of atropine will vary from case to case. Medical: Take blood samples for cholinesterase levels before starting treatment. Stomach washout if organophosphate has been ingested. Pralidoxime enhances the reactivation of acetyl cholinesterase. It is most effective if given early, but can still be started up to 48 hours after poisoning. Pralidoxime is given at a dose of 1-2mg by slow I.V. infusion at a maximum rate of 0.5gm/min. It is used as an adjunct to, not a replacement for atropine. Respiratory Difficulty - Carefully monitor for 24 hours. Convulsions - Control with Diazepam (Valium) 5-10mg by slow I.V. or I.M. repeat as necessary.

Section 5 - Firefighting Measures

Suitable Extinguishing Media	Choose extinguishing media to suit the burning material. Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	If involved in a fire, it may emit oxides of carbon, oxides of nitrogen, oxides of sulphur, oxides of phosphorous and hydrogen chloride.
Special protective equipment for fire-fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Hazchem Code	2X

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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. Sweep up solids without generating dust (use water to dampen). 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 This substance is restricted to use in the workplace only. Use personal protective equipment as required.
 The person mixing or applying SuSCon GREEN 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.
 Avoid skin and eye contact and inhalation of spray mist.
 This product must not be applied onto or into water.
 CERTIFIED HANDLER: Is not required.
 TRACKING: Is not required.
 RECORD KEEPING: Records of use as described in NZS8409 Management of Agrichemicals, must be kept if 3 kg or more of SuSCon GREEN is applied within 24 hours. Records must be kept for a minimum of 3 years from application date.

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 and out of direct sunlight. Storage must be in accordance with NZS 8409 Management of Agrichemicals.
 Stores containing 100kg of SuSCon GREEN are subject to signage, and more than 100kg require emergency response plans.

Other Information 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.

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. WES TWA for chlorpyrifos = 0.2mg/m³ skin

Appropriate Engineering Controls Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment When opening the container, using the product or handling treated compost wear cotton overalls buttoned to the neck and wrist (& worn outside boots) washable hat, elbow length PVC gloves, impervious boots and a full face respirator with an organic vapour and particulate matter cartridge.

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

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 Product Name **suSCon® GREEN**

Form	Solid
Appearance	Dark green granules.
Odour	mild mercaptan odour.
Decomposition Temperature	Information is not available.
Melting Point	100 °C
Boiling Point	>400°C for active ingredient chlorpyrifos.
Solubility in Water	Not soluble.
pH	Information is not available.
Vapour Pressure	2.7mPa (25°C) for active ingredient chlorpyrifos.
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Partition Coefficient: n-octanol/water	Kow Log P is 4.7 for active ingredient chlorpyrifos.
Density	0.62 - 0.68g/mL (tapped)
Flash Point	Information is not available.
Flammability	Information is not available.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Other Information	(GR) Granule

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Incompatible Materials	Strong oxidizing agents.
Hazardous Polymerization	Hazardous polymerisation will not occur.

Section 11 - Toxicological Information

Acute Toxicity - Oral	LD50 (rats) is 135-163mg/kg for active ingredient chlorpyrifos.
Acute Toxicity - Inhalation	LC50 (4-6h) (rats) >0.2mg/L (14ppb) for active ingredient chlorpyrifos.
Acute Toxicity - Dermal	LD50 (rabbits) >5,000mg/kg for active ingredient chlorpyrifos.
Skin Corrosion/Irritation	Not a skin irritant.
Serious Eye Damage/Irritation	Not an eye irritant.
Skin Sensitisation	Not a skin sensitizer.
Germ Cell Mutagenicity	Information is not available.

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Carcinogenicity	Information is not available.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
STOT - Single Exposure	Information is not available.
STOT - Repeated Exposure	Causes damage to the nervous system through prolonged or repeated oral exposure.
Aspiration Hazard	Information is not available.
Chronic Effects	Regular exposure may result in lowering of cholinesterase activity which will recover within a few days after exposure ceases.
Other Information	The Australian Acceptable Daily Intake (ADI) for chlorpyrifos for a human is 0.001 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.1 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 1/2024).

Section 12 - Ecological Information

Persistence and Degradability	Average field half life of chlorpyrifos is 33 - 56 days.
Mobility	Information is not available.
Environmental Fate	Chlorpyrifos is rapidly absorbed, metabolised and eliminated in animals. The rate of hydrolysis in soil is dependant upon pH, with half-lives ranging from 2 to 4 months. Risk of accumulation in an aquatic species is low.
Bioaccumulative Potential	Chlorpyrifos is bioaccumulative. BCF = 20860 (threespine stickleback) for chlorpyrifos
Acute Toxicity - Fish	LC50(96h) bluegill sunfish is 0.002 - 0.010mg/L for active ingredient chlorpyrifos.
Acute Toxicity - Daphnia	LC50(48h) 1.7µg/L for active ingredient chlorpyrifos.
Acute Toxicity - Algae	NOEC (Selenastrum capricornutum) >0.4mg/L for active ingredient chlorpyrifos.
Acute Toxicity - Other Organisms	Birds: LD50 mallard duck is 490mg/kg for active ingredient chlorpyrifos. Bees: Toxic to bees; LD50(oral) 360ng/bee, (contact) 70ng/bee for active ingredient chlorpyrifos. Due to the physical state, this product is not expected to be toxic to bees. Worms: LC50(14d) Eisenia foetida is 210mg/kg soil for active ingredient chlorpyrifos.

Section 13 - Disposal Considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	Ensure container is completely empty. Burn in an appropriate incinerator if circumstances, such as wind direction, permit. Otherwise crush and bury in an appropriate 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	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (chlorpyrifos)
Hazard Class	9
Hazchem Code	2X
Packaging Method	-

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Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
IMDG EMS	F-A, S-F
Other Information	Do not carry this product 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. P4025 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000163 See www.epa.govt.nz for approval controls.
Packaging and Labelling	KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING KEEP LOCKED UP

Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS	March 2020.
Contact Person/Point	IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE NORMAL HOURS: Emergency Response Co-ordinator: (649) 268 2920 24Hr Tollfree Emergency No: 0800 651 911 24Hr Emergency No: National Poisons Centre Phone: 0800 764 766
Revisions Highlighted	Various changes and updates made to the document to comply with GHS7. ...End Of MSDS...

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