

Infosafe No™ 3NUAT	Issue Date : February 2015	ISSUED by NUFARMNZ
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 Product Name **suSCon® GREEN**

## 1. Identification

<b>GHS Product Identifier</b>	suSCon® GREEN
<b>Product Code</b>	03763
<b>Product Type</b>	Organophosphate Insecticide
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	6 Manu Street, Otahuhu Auckland 2024 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150 Fax: 0-9-270 4159
<b>Emergency phone number</b>	0800 651 911
<b>Email</b>	info@nz.nufarm.com
<b>Recommended use of the chemical and restrictions on use</b>	Controls grass grub and manuka beetle in turf, cereals, cloverseed and pasture, also black vine weevil in ornamentals, using controlled release technology.

## 2. Hazard Identification

<b>Other Information</b>	6.1D acute toxicant, 6.8B reproductive or developmental toxicant, 6.9A target organ toxicant, 9.1A aquatic toxicant, 9.3C terrestrial vertebrate toxicant, 9.4A terrestrial invertebrate toxicant, <b>TOXICITY</b> Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. May cause reproductive/development damage from repeated oral exposure. Toxic - may cause nervous system damage from repeated oral exposure at high doses. <b>ECOTOXIC</b> Very toxic to fish and aquatic organisms. Harmful to terrestrial vertebrates. Very toxic to terrestrial invertebrates.
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## 3. Composition/information on ingredients

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

## 4. First-aid measures

<b>First Aid Measures</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Skin</b>	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.
<b>Eye contact</b>	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.
<b>First Aid Facilities</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
<b>Advice to Doctor</b>	Initial Treatment: Atropine is the specific antidote. Large amounts are required in organophosphate poisoning. An initial trial dose of atropine 2mg

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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.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Choose extinguishing media to suit the burning material. Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion Products</b>	If involved in a fire, it may emit oxides of carbon, oxides of nitrogen, oxides of sulphur, oxides of phosphorous and hydrogen chloride.
<b>Special Protective Equipment for fire fighters</b>	Full protective clothing and self-contained breathing apparatus.
<b>Specific Methods</b>	Keep up wind. Do not allow washings to reach sewage or effluent systems.
<b>Hazchem Code</b>	2X
<b>Other Information</b>	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	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.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid contact with skin and eyes. APPROVED HANDLER: This product must only be applied by an approved handler or under the direct supervision of an approved handler. TRACKING: Is not required.
<b>Conditions for safe storage, including any incompatibilities</b>	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.
<b>Other Information</b>	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

<b>Occupational exposure limit values</b>	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product. WES TWA for chlorpyrifos = 0.2mg/m <sup>3</sup> skin
<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Personal Protective Equipment</b>	When opening the container, using the product or handling treated compost wear cotton overalls buttoned to the neck and wrist (& worn outside boots) washable

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<b>Hygiene Measures</b>	hat, elbow length PVC gloves, impervious boots and a full face respirator with an organic vapour and particulate matter cartridge. 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.
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## 9. Physical and chemical properties

<b>Form</b>	Solid
<b>Appearance</b>	Dark green granules
<b>Odour</b>	mild mercaptan odour
<b>Melting Point</b>	100 °C
<b>Solubility in Water</b>	Not soluble.
<b>Vapour Pressure</b>	Not determined. 2.7 mPa (25°C) for chlorpyrifos
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 4.7 for chlorpyrifos
<b>Density</b>	0.62 - 0.68g/mL (tapped)
<b>Other Information</b>	(GR) Granule

## 10. Stability and reactivity

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

## 11. Toxicological Information

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this SDS are followed.
<b>Acute Toxicity - Oral</b>	LD50 (rat) = 96mg/kg bw for chlorpyrifos
<b>Acute Toxicity - Dermal</b>	LD50 (rat) = >2,000mg/kg chlorpyrifos
<b>Acute Toxicity - Inhalation</b>	LC50 (4-6h) (rat) = >0.2mg/L chlorpyrifos
<b>Ingestion</b>	Possible symptoms of exposure include: nausea, vomiting and central nervous system depression.
<b>Inhalation</b>	Not a likely route of exposure due to the physical form of the product.
<b>Skin</b>	Not a likely route of exposure due to the physical nature of the product.
<b>Eye</b>	Not a likely route of exposure due to the physical nature of the product.
<b>Skin Sensitisation</b>	Not a skin sensitizer.
<b>Carcinogenicity</b>	Data indicates no carcinogenic effects.
<b>Chronic Effects</b>	Regular exposure may result in lowering of cholinesterase activity which will recover within a few days after exposure ceases.
<b>Serious eye damage/irritation</b>	Not an eye irritant.
<b>Skin corrosion/irritation</b>	Not a skin irritant.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for chlorpyrifos for a human is 0.003 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.03 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: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', March 2014).

## 12. Ecological information

<b>Persistence and degradability</b>	Average field half life of chlorpyrifos is 33 - 56 days.
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<b>Environmental Fate</b>	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.
<b>Bioaccumulative Potential</b>	Chlorpyrifos is bioaccumulative. BCF = 20860 (threespine stickleback) for chlorpyrifos
<b>Other Precautions</b>	Ensure granules are completely covered with soil immediately after application as they are dangerous to wildlife, particularly birds.
<b>Basis for Assessment</b>	Ecotoxicological data have not been determined specifically for this product. Data below is for the active ingredient unless otherwise stated.
<b>Acute Toxicity - Fish</b>	LC50 (96h) bluegill sunfish = 0.002 - 0.010mg/L for chlorpyrifos LC50 (96h) tidewater silverside = 0.0004mg/L for chlorpyrifos Chronic NOEC (720h) fathead minnow = 0.012µg/L for chlorpyrifos
<b>Acute Toxicity - Daphnia</b>	LC50 (48h) daphnia = 1.7µg/L for chlorpyrifos
<b>Acute Toxicity - Other Organisms</b>	Birds: LD50 mallard duck = 490mg/kg for chlorpyrifos LD50 pheasant = 8.41mg/kg for chlorpyrifos Bee: Contact LD50 bee = 0.059µg/bee for chlorpyrifos Due to the physical state, this product is not expected to be toxic to bees. Worms: LC50 (14d) Earthworm (Eisenia foetida) = 210mg/kg soil for chlorpyrifos

### 13. Disposal considerations

<b>Product Disposal</b>	Dispose of product only by using according to the label, or at an approved landfill.
<b>Container Disposal</b>	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.

### 14. Transport information

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>U.N. Number</b>	3077
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (chlorpyrifos, 10%)
<b>Transport hazard class(es)</b>	9
<b>Hazchem Code</b>	2X
<b>Packaging Method</b>	-
<b>Packing Group</b>	III
<b>EPG Number</b>	-
<b>IERG Number</b>	47
<b>IMO Marine Pollutant</b>	Yes. Environmentally Hazardous Substance mark required.
<b>IMDG EMS</b>	F-A, S-F
<b>Other Information</b>	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.

### 15. Regulatory information

<b>National and or International Regulatory Information</b>	Registered pursuant to the ACVM Act 1997, No. P4025 See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000163 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.
<b>Packaging &amp; Labelling</b>	HARMFUL * ECOTOXIC - keep out of reach of children



# Safety Data Sheet

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**Hazard Rating** NFPA/HMIS: 1-1-0  
**Systems**

## 16. Other Information

**Date of preparation** October 2014  
**or last revision of**  
**SDS**

**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** The SDS was reviewed. Various changes were made following organophosphate and  
**Highlighted** carbamate reassessment.  
...End Of MSDS...

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