

Infosafe No™ 3NUFB	Issue Date : February 2015	ISSUED by NUFARMNZ
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 Product Name **COUNTER® 20G**

## 1. Identification

<b>GHS Product Identifier</b>	COUNTER® 20G
<b>Product Code</b>	03406
<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>	A systemic soil applied granular insecticide for the protection of newly sown pasture, cereals, fodder brassicas, maize and sweetcorn.
<b>Other Information</b>	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

<b>Other Information</b>	6.1A acute toxicant, 6.8B reproductive or developmental toxicant, 6.9A target organ toxicant, 8.2C skin corrosive, 8.3A eye corrosive, 9.1A aquatic toxicant, 9.3A terrestrial vertebrate toxicant, 9.4C terrestrial invertebrate toxicant, TOXICITY Toxic - may be fatal if swallowed, inhaled or absorbed through the skin. May cause reproductive/development damage from repeated oral exposure. May cause damage to the nervous system from repeated oral exposure at high doses. CORROSIVE Danger - this product is corrosive and may cause eye damage or skin burns. ECOTOXIC Very toxic to aquatic organisms. Very toxic to terrestrial vertebrates. Harmful 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>
	Terbufos	13071-79-9	200 g/kg
	Ingredients determined to be non-hazardous	-	Balance

## 4. First-aid measures

<b>First Aid Measures</b>	If swallowed, spilled on skin or in the eyes, or inhaled, and/or if symptoms from exposure are occurring, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Wear suitable gloves and ensure other skin protection is adequate when attending victims. Wear suitable respiratory protection if there is an exposure risk. An antidote can be medically administered at a health care facility.
<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. Repeated inhalation may have a cumulative poisoning effect.
<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

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<b>Eye contact</b>	contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance. Do not scrub the skin. Repeated skin contact may have a cumulative poisoning effect.
<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 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.
<b>Most important symptoms/effects, acute and delayed</b>	Weakness, faintness, giddiness, headache, tightness in chest, blurred vision, non-reactive pinpoint pupils, salivation, sweating, nausea, vomiting, diarrhoea, abdominal cramps, muscle twitching.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Dry Chemical, foam, Water fog,
<b>Hazards from Combustion Products</b>	Thermal decomposition products may include but are not limited to hydrogen sulphide, mercaptans, thiophosphates, non-specified oxides or carbon, phosphorus and sulphur and diakylsulfides.
<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. Keep containers cool with water spray.
<b>Specific hazards arising from the chemical</b>	Flammable vapour/air mixture may be explosive.
<b>Hazchem Code</b>	2XE
<b>Decomposition Temp.</b>	~120°C at 1 atmosphere
<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. Decontaminate spill area with a solution of 10% household bleach, 5% isopropyl alcohol and 85% water. Rinse spill area and tools with the decontamination solution. Contain and absorb this rinsate with inert absorbent granules and place in the same container as the spilled material.
<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

Infosafe No™ 3NUFB	Issue Date : February 2015	ISSUED by NUFARMNZ
--------------------	----------------------------	--------------------

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<b>Precautions for Safe Handling</b>	<p>Remove unprotected persons from the operating area. Avoid contact with skin and eyes and do NOT inhale dust. Do NOT touch or rub eyes, nose or mouth with hand when handling granules. When handling wear cotton overalls buttoned to the neck and wrist (and worn outside boots), washable hat, elbow-length PVC gloves, impervious boots, and a full face respirator with an organic vapour and particulate matter cartridge.</p> <p>APPROVED HANDLER: This product must be under the control of an approved handler, or secured.</p> <p>TRACKING: Location and movement of this product must be recorded at each step of its lifecycle.</p> <p>RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept.</p> <p>Remove animals from the operating area. Take precautions to prevent livestock, birds and other wildlife from recovering granules from the soil surface.</p>
<b>Conditions for safe storage, including any incompatibilities</b>	<p>Keep out of reach of children.</p> <p>Store in original container, tightly closed, in a locked, dry, cool, well ventilated area away from foodstuffs, seeds, feed and fertiliser. Store in accordance with NZS 8409 Management of Agrichemicals.</p> <p>Stores containing 50kg of COUNTER 20G are subject to signage, and more than 100kg require emergency response plans.</p>
<b>Corrosiveness</b>	<p>May cause eye damage or skin burns.</p>
<b>Other Information</b>	<p>Always read the label and any attached leaflet before use.</p> <p>Aggregate Storage Volume Thresholds:</p> <p>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.</p>

## 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.
<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Personal Protective Equipment</b>	When opening the container or using the product wear cotton overalls buttoned to the neck and wrist (and worn outside boots), washable hat, elbow-length PVC gloves, impervious boots, and a full face respirator with an organic vapour and particulate matter cartridge.
<b>Hygiene Measures</b>	<p>Do not eat, drink or smoke while using.</p> <p>Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.</p>

## 9. Physical and chemical properties

<b>Form</b>	Solid
<b>Appearance</b>	Grey-brown
<b>Odour</b>	Mercaptan
<b>Decomposition Temperature</b>	~120°C at 1 atmosphere
<b>Solubility in Water</b>	Negligible
<b>Density</b>	6.88-8.33kg/L
<b>Other Information</b>	(GR) Granule

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Conditions to Avoid</b>	<p>Decomposes on heating.</p> <p>Avoid moisture.</p>
<b>Incompatible Materials</b>	Strong oxidisers, strong acids, and strong alkaline materials.
<b>Hazardous Polymerization</b>	Hydrolysis may occur under alkaline conditions.
	Hazardous polymerisation will not occur.

## 11. Toxicological Information

Infosafe No™ 3NUFB	Issue Date : February 2015	ISSUED by NUFARMNZ
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<b>Toxicology Information</b>	No specific toxicological data is available for this product. Data below is for constituents.
<b>Acute Toxicity - Oral</b>	LD50 (rat) 1.3 mg/kg for terbufos
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) 0.8 mg/kg for terbufos
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) 1.7µg/L for terbufos
<b>Skin</b>	May burn the skin.
<b>Eye</b>	Corrosive to eyes.
<b>Reproductive Toxicity</b>	Suspected human reproductive or developmental toxicant.
<b>Subchronic/Chronic Toxicity</b>	LOAEL = 0.01mg/kg bw/day. Neurotoxic.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for terbufos for a human is 0.0002 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.0025 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', June 2012).

## 12. Ecological information

<b>Persistence and degradability</b>	Terbufos is persistent. >68days
<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 (96hr) for rainbow trout is 0.0067 mg/l for terbufos
<b>Acute Toxicity - Daphnia</b>	LC50 (48hr) for Daphnia magna is 0.00031 mg/l for terbufos.
<b>Acute Toxicity - Other Organisms</b>	LD50 for Northern bobwhite quail is 28.6 mg/kg for terbufos (14d) LD50 (honey bee) (48h) = 4.09µg/bee Due to physical state this product is not expected to be harmful to bees.

## 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>	Empty bag completely into application equipment, then crush box and bag and bury in an approved landfill. Do not burn empty packaging.

## 14. Transport information

<b>Transport Information</b>	COUNTER 20G must not be loaded in the same freight container, or on the same vehicle as Class 1 items or foodstuffs.
<b>U.N. Number</b>	2783
<b>UN proper shipping name</b>	ORGANOPHOSPHOROUS PESTICIDE, SOLID, TOXIC - (terbufos, 20%)
<b>Transport hazard class(es)</b>	6.1
<b>Hazchem Code</b>	2XE
<b>Packaging Method</b>	-
<b>Packing Group</b>	I
<b>EPG Number</b>	-
<b>IERG Number</b>	35
<b>IMO Marine Pollutant</b>	Yes. Environmentally Hazardous Substance mark required.
<b>IMDG EMS</b>	F-A, S-A
<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.



# Safety Data Sheet

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CS: 1.7.2

Page: 5 of 5

Infosafe No™ 3NUFB Issue Date : February 2015 ISSUED by NUFARMNZ

Product Name **COUNTER® 20G**

## 15. Regulatory information

**National and or International Regulatory Information** Registered pursuant to the ACVM Act 1997, No. P3359  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions  
Approved pursuant to the HSNO Act 1996, Approval Code HSR000216  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

**Packaging & Labelling** TOXIC \* CORROSIVE \* ECOTOXIC - Keep out of reach of children

**Hazard Rating** NFPA/HMIS: 4-1-0

**Hazard Category** TOXIC \* CORROSIVE \* ECOTOXIC - Keep out of reach of children

## 16. Other Information

**Date of preparation or last revision of SDS** October 2012

**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** The SDS was reviewed. Various changes made following organophosphate and carbamate reassessment.  
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