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Infosafe No™ 3NUFB Issue Date : June 2020 ISSUED by NUFARMNZ

Product Name COUNTER® 20G

#### 1. Identification

**GHS Product** 

COUNTER® 20G

Identifier

03406 **Product Code** 

**Product Type** Organophosphate Insecticide

Nufarm NZ Company Name

Address 6 Manu Street, Otahuhu

Auckland 2024 New Zealand Tel: 0-9-270 4150 Telephone/Fax

Number

**Emergency phone** 

number

0800 651 911

E-mail Address

nzinfo@nufarm.com

the chemical and

Recommended use of A systemic soil applied granular insecticide for the protection of newly sown

pasture, cereals, fodder brassicas, maize and sweetcorn.

restrictions on use 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

the

GHS classification of Classified as Dangerous Goods for transport according to the New Zealand

Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

substance/mixture

Signal Word (s)

DANGER

Hazard Statement (s)

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H361 Suspected of damaging fertility or the unborn child

H372 Causes damage to organs through prolonged or repeated exposure .

H410 Very toxic to aquatic life with long lasting effects.

H431 Very toxic to terrestrial vertebrates.

H443 Harmful to terrestrial invertebrates.

Precautionary

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. statement - General

P103 Read label before use.

Pictogram (s)

Corrosion, Skull and crossbones, 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.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face

P281 Use personal protective equipment as required.

P284 Wear respiratory protection.





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Precautionary statement - Response P330 Rinse mouth.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see Specific Treatment: Atropine is specific

antidote. on this label).

P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.

P361 Remove/Take off immediately all contaminated clothing. P310 Immediately call a POISON CENTER or doctor/physician.

P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P391 Collect spillage.

Precautionary statement - Storage Precautionary

statement - Disposal

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a

description of one or more appropriate and achievable methods for the disposal

of a substance in accordance with the Hazardous Substances (Disposal)

Regulations 2001. This may also include any method of disposal that must be

avoided. See Section 13 for disposal details.

Other Information

6.1A acute toxicant, 6.8B reproductive or developmental toxicant, target organ toxicant, 8.2C skin corrosive, 8.3A eye corrosive, aquatic toxicant, 9.3A terrestrial vertebrate toxicant, 9.4C te 9.4C terrestrial

invertebrate toxicant,

#### 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Terbufos	13071-79-9	200 g/kg
	Ingredients determined to be non-hazardous	-	Balance

#### 4. First-aid measures

If swallowed, spilled on skin or in the eyes, or inhaled, and/or if symptoms First Aid Measures 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.

Remove patient to fresh air. Lay down and keep warm and rested. If breathing Inhalation

is shallow or has stopped ensure airway is clear and apply resuscitation.

Seek medical assistance immediately.

Repeated inhalation may have a cumulative poisoning effect.

Never give anything by mouth to an unconscious person. If swallowed do NOT Ingestion

induce vomiting. For advice, contact the National Poisons Centre (0800 764

766). Seek medical assistance immediately.

Immediately flush body and clothes with large amounts of water. Remove Skin

> 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.

If in eyes, hold eyelids apart and flush the eye with continuously running Eye contact

Continue flushing until advised to stop by the National Poisons

Centre, or for at least 15 minutes.

First Aid Facilities Facilities storing or utilizing this material should be equipped with an

eyewash facility and safety shower. Initial Treatment: Atropine is the specific antidote. Large amounts are Advice to Doctor

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.





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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.

Most important symptoms/effects, acute and delayed

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

Suitable Dry Chemical, foam, Water fog,

extinguishing media Hazards from

Hazards from
Combustion
Products

Thermal decomposition products may include but are not limited to hydrogen sulphide, mercaptans, thiophosphates, non-specified oxides or carbon,

phosphorus and sulphur and diakylsulfides.

Special Protective Equipment for fire

fighters
Specific Methods

Full protective clothing and self-contained breathing apparatus.

Keep up wind. Do not allow washings to reach sewage or effluent systems.

Keep containers cool with water spray.

Specific hazards arising from the chemical

Hazchem Code 2XE

Decomposition Temp. ~120°C at 1 atmosphere

Other Information Location Certificate: Not applicable

Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

Flammable vapour/air mixture may be explosive.

### 6. Accidental release measures

Spills & 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.

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.

**Personal Protection** 

For appropriate personal protective equipment (PPE), refer Section 8.

**Environmental Precautions** 

Prevent from entering drains, waterways or sewers.

### 7. Handling and storage

Handling and Storage

Do not handle until all the safety precautions have been read and understood. The person mixing or applying COUNTER 20G must be a 'Qualified Contractor' or 'Qualified Loader'. For more information refer to the Hazardous Substances Property Controls Notice 2017. 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.

Precautions for Safe Handling

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),





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washable hat, elbow-length PVC gloves, impervious boots, and a full face

respirator with an organic vapour and particulate matter cartridge.

CERTIFIED HANDLER: This product must only be applied by a certified handler

or under the direct supervision of a certified handler.

TRACKING: Location and movement of this product must be recorded at each step

of its lifecycle.

RECORD KEEPING: Records of use as described in NZS 8409 Management of

Agrichemicals must be kept.

Remove animals from the operating area. Take precautions to prevent

livestock, birds and other wildlife from recovering granules from the soil

Conditions for safe storage, including any incompatibilities Keep out of reach of children.

Store in original container, tightly closed, in a locked, dry, cool, well ventilated area away from foodstuffs, seeds, feed and fertiliser.

accordance with NZS 8409 Management of Agrichemicals.

Stores containing 50kg of COUNTER 20G are subject to signage, and more

than 100kg require emergency response plans.

Corrosiveness

May cause eye damage or skin burns.

Always read the label and any attached leaflet before use. Other Information

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

No exposure limits (WES, TEL or EEL's) have been specifically assigned for Handle in well ventilated areas, generally natural ventilation is adequate.

this product.

**Appropriate** 

engineering controls

**Personal Protective** 

Equipment

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.

**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

Solid **Form** 

Grey-brown Appearance Odour Mercaptan

Decomposition **Temperature** 

~120°C at 1 atmosphere

Melting/Freezing

-29°C (for terbufos)

Point

69°C/0.01mmHg (for terbufos) **Boiling Point** 

Solubility in Water Negligible

pН Information not available.

Vapour Pressure Vapour Density

Information not available.

34.6 mPa (25°C) (for terbufos)

(Air=1)

Partition Coefficient: Kow logP = 2.77 (for terbufos)

n-octanol/water

6.88-8.33kg/L Density

Information not available. Flash Point





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Not flammable. Flammability

Information not available. Auto-Ignition

**Temperature** 

Information not available. Flammable Limits -

Lower

Information not available. Flammable Limits -

Upper

Information not available. Kinematic Viscosity

(GR) Granule Other Information

#### 10. Stability and reactivity

Stable under normal conditions of handling and storage. **Chemical Stability** 

Decomposes on heating. **Conditions to Avoid** 

Avoid moisture.

Strong oxidisers, strong acids, and strong alkaline materials. Hydrolsis may occur under alkaline conditions. Incompatible

Materials

Hazardous polymerisation will not occur. Hazardous

**Polymerization** 

#### 11. Toxicological Information

No specific toxicological data is available for this product. Data below is **Toxicology** 

for constituents. Information

Acute Toxicity - Oral LD50 (rat) 1.3 mg/kg for terbufos

LD50 (rabbit) 0.8 mg/kg for terbufos Acute Toxicity -

Dermal

LC50 (rat)  $1.7\mu g/L$  for terbufos Acute Toxicity -

Inhalation

Skin May burn the skin. Eye Corrosive to eyes. Not a sensitiser. Respiratory

sensitisation

Germ cell

mutagenicity

Reproductive

Information not available. Carcinogenicity Suspected human reproductive or developmental toxicant.

**Toxicity** 

LOAEL = 0.01mg/kg bw/day.

Information not available.

STOT-repeated

exposure Causes serious eye damage. Serious eve

Not an irritant.

damage/irritation

Respiratory

Irritation Causes severe skin burns. Skin

corrosion/irritation

Subchronic/Chronic

Neurotoxic.

**Toxicity** 

Other Information 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

Causes damage to nervous sytem through prolonged or repeated exposure.

Safety, 'ADI List', March 2020).

### 12. Ecological information





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Persistence and Terbufos is persistant.

degradability

Mobility Soil: Oxidative and hydrolytic degradation occurs in soil. No accumulation.

>68davs

DT50 in soil=9-27 d

Bioaccumulative

Information not available.

Potential

Basis for Assessment Ecotoxicological data have not been determined specifically for this product.

Data below is for the active ingredient unless otherwise stated.

Acute Toxicity - Fish LC50 (96hr) for rainbow trout is 0.0067 mg/l for terbufos

**Acute Toxicity -**

LC50 (48hr) for Daphnia magna is 0.00031 mg/l for terbufos.

Daphnia
Acute Toxicity -

LD50 for Northern bobwhite quail is 28.6 mg/kg for terbufos (14d)

Other Organisms LD50 (honey bee)  $(48h) = 4.09 \mu g/bee$ 

Due to physical state this product is not expected to be harmful to bees.

13. Disposal considerations

Product Disposal Dispose of product only by using according to the label, or at an approved

landfill.

6.1

bury in an approved landfill. Do not burn empty packaging.

14. Transport information

Transport COUNTER 20G must not be loaded in the same freight container, or on the same

Information vehicle as Class 1 items or foodstuffs.

**U.N. Number** 2783

**UN proper shipping** 

name

ORGANOPHOSPHOROUS PESTICIDE, SOLID, TOXIC - (terbufos, 20%)

Transport hazard

class(es)

ciass(es)

Hazchem Code 2XE
Packaging Method Packing Group I
EPG Number -

IERG Number 35

IMO Marine

Yes. Environmentally Hazardous Substance mark required.

Pollutant

IMDG EMS F-A, S-A

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.

15. Regulatory information

National and or Registered pursuant to the ACVM Act 1997, No. P3359
International See www.foodsafety.govt.nz for registration conditions

Regulatory Approved pursuant to the HSNO Act 1996, Approval Code HSR000216

Regulatory
Information
Approved pursuant to the HSNO Act 1996,
See www.epa.govt.nz for approval controls.

Hazard Rating

Systems

NFPA/HMIS: 4-1-0

16. Other Information

Date of preparation or last revision of

February 2015

SDS

Print Date: 24/06/2020





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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

5 yearly review carried out. Various changes and updates made to document.

Highlighted

...End Of MSDS...

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