

MATERIAL SAFETY DATA SHEET**Poison Information Centre: 082 446 8946; Tygerberg: (021) 931 6129; Poison Emergency Enquiry: (021) 689 5227****SECTION 1 - PRODUCT & COMPANY IDENTIFICATION**

Substance: Acetamiprid
Product Name: DODO 200 SP
Product Use: Insecticide
Creation Date: February 2021

GREEN ISLAND INVESTMENTS (Pty) Ltd

Co. Reg. No./Mpy. Reg. Nr.: 2013/043963/07
P.O. Box 1822,
Heidelberg, South Africa, 1438
Tel: 010 035 4143

In case of Poisoning:

Poison Information Centre 082 446 8946
Tygerberg Hospital: (021) 931 6129
Poison Emergency Enquiries (021) 689 5227

In case of Spillage:

HAZMAT: 0800 147 112

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Product Name : Acetamiprid 20% SP
Common name : Acetamiprid 20% SP
Chemical group : neonicotinoid
Chemical Name of a.i. : (E)-N1-[(6-chloro-3-pyridyl)methyl]-N2-cyano-N1-Methylacetamidine
(CAS #) : 135410-20-7
Molecular Weight : 222.7
Empirical formula : C₁₀H₁₁ClN₄
Uses : Insecticide

Composition of product

Component	Per cent
Acetamiprid a.i.	20.00 %
Other non hazardous ingredients	to 100 %

SECTION 3 - HAZARD IDENTIFICATION**Signal word:** Warning**Hazard statements**

H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.
H335 May cause respiratory irritation.

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing mist/ spray.
P280 Wear protective gloves/ protective clothing.
P302 + P352 IF ON SKIN: Wash with plenty of water/ soap.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor/physician if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local regulation.

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SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS

Inhalation:

Immediately remove source of contamination or move victim to fresh air. If breathing has stopped, perform artificial respiration and administer oxygen. Do not give mouth-to-mouth resuscitation if victim ingested or inhaled the substance. Keep person warm and at rest. Treat symptomatically and supportively as and when required. Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Notes to physicians: There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient.

Skin contact:

Remove contaminated clothing, shoes and leather goods immediately. Gently wipe off excess chemical. Wash skin gently and thoroughly with non-abrasive soap or mild detergent and large amounts of water until no evidence of chemical remains (approximately 15 to 20 minutes). Seek medical advice if irritation develops and persists.

Eye contact:

Immediately flush the eyes with gently flowing lukewarm water or sodium bicarbonate solution for 20 to 30 minutes, occasionally lifting the upper and lower lids. If irritation persists, seek medical advice immediately.

Ingestion:

Do not induce vomiting. Never induce vomiting or give anything to drink to an unconscious person. If the person is alert, rinse mouth thoroughly with water and give one or two glasses of water to drink. Treat symptomatically and supportively. Call a physician or Poison Control Center.

Advice on treatment:

No specific antidote available. Treat symptomatically and supportively.

SECTION 5 - FIRE-FIGHTING MEASURES

Flash point: None. This material is non-flammable.

Extinguishing agents:

Extinguish small fires with dry chemical, carbon dioxide, dry powder, or alcohol-resistant foam.

Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site.

Fire fighting:

Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire.

Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours. Keep upwind.

Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal.

Dyke fire control water for later disposal. Do not scatter the material. Avoid pollution of waterways.

Do not use high volume water jet, due to contamination risk. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site.

Personal protective equipment:

Fire may produce irritating and/or toxic vapours, mists or other products of combustion. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions:

Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.

Environmental precautions:

Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs. Considered as Marine Pollutant.

Occupational spill:

Do not touch spilled material; stop leak if you can do it without risk. Keep out unprotected persons and animals.

For spills: Soak up with absorptive material such as damp earth or sand or other suitable non-combustible absorbent material. Place the material into a clean, dry container and cover for subsequent disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Prevent material from spreading by damming in with absorptive material. Do not flush spilled material into drains. Keep spectators away and upwind.

To decontaminate spill area, tools and equipment, wash with a suitable solution (i.e. organic solvent, detergent bleach or caustic). Add the solution to the drums already collected. Label drums with its content and dispose it in accordance with local regulations.

Open burning or dumping of this material is prohibited.

Do not get water inside containers.

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SECTION 7 - HANDLING AND STORAGE REQUIREMENTS

Handling:

Avoid contact with eyes, skin and clothing. Avoid inhalation of dust, spray mist. Use with adequate ventilation. Do not eat, drink or smoke while working. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Operators should change and wash clothing daily. Remove clothing immediately if the pesticide gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage:

Keep under lock and key and out of reach of unauthorized persons, children and animals. Store in its original labelled container in isolated, dry, cool and well-ventilated area. Not to be stored next to feeds, food and water supplies. Local regulations should be complied with.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT:

If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

Respirator:

It is usually safe to use the product without respirator. Where exposure through inhalation may occur when handling and/or when preparing the spray mixture, wear a face mask. If the product is used in dusty or confined conditions or spillage and fire conditions a respirator suitable and approved for protection from dusts and mists of pesticides is adequate. Limitations of respirator use specified by the approved agency and the manufacturer must be observed.

Clothing:

Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

Gloves:

Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance.

Eye protection:

The use of safety goggles is recommended.

Emergency eye wash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light blue powder with no visual extraneous matter.
Odour:	Mild chemical odour.
Flammability:	Not flammable.
Flash point:	Not applicable.
Density:	0.5 - 0.55 g/ml
pH:	6 to 8
Solubility:	Completely soluble in water.
Wettability:	max 60 sec

SECTION 10 - STABILITY AND REACTIVITY

Stability:

Very stable. Considered stable for a period of 2 years in normal air, warehouse and light conditions, if kept in closed container.

Compatibility:

Compatible with most herbicides at normal rates. As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made.

Do not use in conjunction with organophosphate insecticides.

Hazardous decomposition Product(s):

Combustion or thermal decomposition may generate toxic and irritant vapours.

SECTION 11 - TOXICOLOGICAL INFORMATION

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Formulation (calculated):

Acute oral LD50: >2500 mg/kg
Acute dermal LD50: > 4000 mg/kg
Acute inhalation LC50: >3.0 mg/l
Acute skin irritation: Non skin irritant
Acute eye irritation: Non eye irritant
Sensitization: Not skin sensitization (guinea pigs)
Teratogenicity/Development: Not teratogenic and it is not a developmental toxicant
Mutagenicity: No data available for the formulation.
Carcinogenicity: Not carcinogenic
ADI: 0.183 mg/kg b.w.
WHO III (a.i.): Slightly hazardous.

SECTION 12 - ECOLOGICAL INFORMATION

Acute Effects:

Eyes: Acetamiprid technical is a non-irritant. Formulation may cause mild to moderate irritation due to inerts.

Skin: Acetamiprid technical is a non-irritant. Formulation may cause mild to moderate irritation due to inerts

Dermal sensitization: Not expected to be a skin sensitizer. Individuals may develop an allergic response.

Ingestion: Moderately toxic by ingestion. Symptoms may include diarrhoea and stomach pain.

Oral LD50 rats:

Acetamiprid technical: In water male: 417 & female 314 mg/kg

And male: 217 & female 146 mg/kg

Formulation calculated: 1065 mg/kg (730-2085 mg/kg)

Dermal LD50 rats:

Acetamiprid technical: >2000 mg/kg

Formulation calculated: >2000 mg/kg

Inhalation LC50 (4 hours):

Acetamiprid technical: >0.29 mg/l

Formulation calculated: Harmful Mutagenicity: No evidence of mutagenicity. Negative in the Ames test. Teratogenicity: No teratogenicity or fetotoxicity was observed at the tested doses.

Carcinogenicity: No carcinogenic potential. Acetamiprid is classified as an 'unlikely' human carcinogen. Endocrine disruption: No evidence of endocrine disruption.

ADI: 0.07 mg/kg

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Mobility, Degradability & Accumulation:

Acetamiprid is a mobile, rapidly biodegradable compound in most soils. Half-lives range from <1 day to 8,2 days in all studies. No major issues for soil mobility since low use rate and rapid degradation reduce the amount for offsite movement. The major degradate; methyl(6-chloro-3-pyridyl)methyl amine, was more persistent than the parent acetamiprid. However, the degradate was found to be of low significance. Acetamiprid is moderately to highly mobile in tested soils with Kd values of less than 4,1 m²/g and Koc values in the range of 132 to 267 m²/g. Acetamiprid is stable to hydrolysis at environmental temperatures, and photo-degrades relatively slowly in water, which makes it more persistent in water, half-life is 34 days at pH 7 at 25 OC. Environmental residues in drinking water are predicted to be low. Acetamiprid is relatively non persistent and though it is mobile, rapid degradation will reduce its potential to leach to groundwater. It is not expected to bind strongly to aquatic sediments. The degradation products have the potential to leach to groundwater. However, such contamination will not be of toxicological significance. Approximately > 90% of acetamiprid administered to rats, is metabolised.

ECOTOXICOLOGY:

Birds: Low acute risk to birds.

Oral LD₅₀: Bobwhite quail: 180 mg/kg
Mallard ducks: 98 mg/kg

Fish: Low acute risk to fish.

LC₅₀ (24 - 96 hours): carp: > 100 mg/ℓ

Acetamiprid will not bioaccumulate in fish and in sediment.

Daphnia: Low acute risk.

EC₅₀ (48 hours): *Daphnia magna*: 49,8 mg/ℓ

LC₅₀ (24 hours): > 200 mg/ℓ

Bees: Toxic to bees.

LD₅₀: contact: 8,1 Ng/bee
oral: 14,5 Ng/bee

Scenedesmus subspicatus > 98,3 mg/ℓ

LC₅₀ at day 14: 9 mg/kg

Product may be harmful to aquatic organisms.

SECTION 13 - DISPOSAL CONSIDERATION

Pesticide disposal:

Open dumping or burning of this herbicide is prohibited. Waste resulting from the use of this product cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers.

Comply with local legislation applying to waste disposal.

Container disposal:

Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.

Empty the container of excess product into the container of the applicator. Destroy the emptied containers in the prescribed, safe manner.

TRIPLE RINSE empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.

Do not re-use the empty container for any other purpose but destroy it by perforation and flattening and bury in an approved dumpsite. Prevent contamination of food, feedstuffs, drinking water and eating utensils.. Comply with local legislation applying to waste disposal.

SECTION 14 - TRANSPORT INFORMATION

UN NUMBER: NOT REGULATED

ROAD TRANSPORT ADR/IRD:

CLASS: 9

Packaging Group: III

Un Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S (Acetamiprid 20%)

Maritime Transport Imdg/Imo:

Class: 9

Packaging Group: Iii

Un Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S (Acetamiprid 20%)

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Air Transport IATA/CAO:

Class: 9

Packaging Group: III

Un Proper Shipping Name: *Environmentally Hazardous Substance, Solid, N.O.S (Acetamiprid 20%)*

Special/Environmental Precautions: None Known.

Transport In Bulk (According To Marpol 73/78, Annex II

And The IBC Code): Not Available.

Considered a marine pollutant.

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

OHSA 1993 Regulations for Hazardous Chemical Substances.

Relevant information regarding restrictions: None.

EU regulation: Regulation EC1272/2008 (EU-GHS/CLP)

Other national regulations: None.

Chemical Safety Assessment carried out? No

SECTION 16 - OTHER INFORMATION

Packaging: Packed in 50, 100, 200, 250, 500 g, 1, 5, 10, 20 & 50 kg in plastic containers, 3-ply paper bags or polyprop woven bags. According to South African regulations and guidelines.

Additional H-statement (s) (formulants)

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effect

Containers and labelled according to the South African regulations and guidelines.

Symbol: Xn, N

Indication of danger: Harmful Substance and Environmentally Dangerous Substance.

Risk phrases:

R 40 Limited evidence of carcinogenic effect

R 43 May cause sensitization by skin contact

R 50 Very toxic to aquatic organisms.

Safety phrases:

S 1/2 Keep locked up and out of the reach of children.

S 3/7/9 Keep container tight closed in cool well ventilated place.

S 13 Keep away from food, drink and animal feeding stuffs

S 15 Keep away from heat

S 20/21 when using not eat or drink animal feeding stuffs

S 29/35 Do not empty into drains; dispose of this material and its container in a safe way

S 45 In case of accident or if you feel unwell, seek medical advice immediately

S 24/25 Avoid contact with skin and eyes.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 60 This material and its container must be disposed of as hazardous waste.

Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.