



SAFETY DATA SHEET

SUBJECT: INSECTICIDE GRANULES PLUS
EFFECTIVE DATE: MARCH 2017
REVISION DATE: 13.03.2019
REVISION NO: 2
PAGE : 1 of 5
PRODUCT CODE: -

1. PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER: **EFEKTO**
PO Box 654127
Benmore
2010
0861 333 586 office hours

EMERGENCY TELEPHONE NUMBERS:

SPILLAGES: 082 446 8946

POISONINGS:

Poisons Information Helpline 0861 555 777 (all hours)

Griffon Poison Centre 082 446 8946

Trade Name: INSECTICIDE GRANULES PLUS

Use A ready-to-use systemic, granular insecticide for control of sucking insects on conifers, flowers, ornamental shrubs and roses in the home garden.

2. HAZARD IDENTIFICATION

Hazardous components: Imidacloprid

R Phrases: R22, R52

Toxicity class:

WHO (a.i.) II; EPA III (formulation)

ADI 0.06 mg/kg

NOEL 330 mg/kg diet daily (rats) – 52 weeks

Main Hazards:

Harmful to aquatic organisms.

Harmful if swallowed and if absorbed through the skin.

Skin contact:

Non irritating.

Eye contact:

May cause slight eye irritation.

Fire and explosion hazard:

None.

Chemical Hazard:

None

Carcinogenicity/ Mutagenicity/ Reproductive /Teratogenicity

/Neurotoxicity:

See section 11.

3. COMPOSITION /INFORMATION ON INGREDIENTS

Active ingredient: Imidacloprid 7,5 g/kg
Chemical Name: 1-(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine
CAS No.: 138261-41-3
Chemical Family: Neonicotinoid
Chemical Formula: C₉H₁₀ClN₅O₂ (Mol. wt.: 255.7)
Use: Insecticide (systemic)
UN No.: None-not regulated

4. FIRST AID MEASURES

Signs of Poisoning: No account of human poisoning was found in the literature, however, signs and symptoms of poisoning would be expected to be similar to those of nicotinic poisoning. These would include fatigue, twitching, cramps, and muscle weakness including the muscles necessary for breathing.

FIRST AID:

Move patient out of contaminated area and **SEEK TREATMENT ADVICE FROM A POISON CENTRE OR PHYSICIAN.**

Skin contact:

Rinse the affected skin area with plenty of cold water and soap.

Eye contact:

In case of contact with eyes, hold eyelids open and rinse with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye thoroughly with water.

Ingestion:

Do not induce vomiting. Wash mouth out with water. Do not give anything by mouth to an unconscious person.

Advice to physician:

There is no antidote. Treat symptomatically and supportively. In case of ingestion perform gastric lavage then administer activated charcoal (carbo medicalis) and sodium sulfate.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Foam, sand, water spray or carbon dioxide (CO₂).



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Specific hazards during firefighting:

In the event of a fire the following hazardous decomposition products can be released: hydrogen chloride (HCl), hydrogen cyanide (hydrocyanic acid), carbon monoxide (CO), nitrogen oxides (NO_x)

Special protective equipment for fire-fighters:

Wear a fire resistant suit with self-contained breathing apparatus. No unprotected person should be allowed in the vicinity.

Further information:

Cool closed containers exposed to fire with water spray. Contain the spread of the fire-fighting media. Do not allow run-off from the fire fighting to flow into drains or water courses.

children, uninformed persons and animals. Keep away from food, drink and animal feed.

6. ACCIDENTAL RELEASE MEASURES

Precautions:

Clear unauthorised personnel from the contaminated area.

Personal precautions:

Wear personal protective equipment. Avoid contact with spilled product or contaminated surfaces.

Environmental precautions:

Do not discharge spillage or wash water into drains/surface water/groundwater. If spillage enters drains leading to sewage works inform local water company immediately.

Occupational spill:

Contain and sweep up spillage. Collect with a spade and deposit in a secure, properly labeled, closed container for recovery or disposal. In the case of spillage in water, use barrier devices to prevent dispersion of the product. Collect and store spillage for disposal as above. Contact the competent authorities if the situation cannot be controlled. Clean contaminated areas and objects thoroughly, observing environmental regulations. Use dry absorbent material to absorb and collect wash water for proper disposal.

Additional advice:

For information regarding personal protective equipment, see section 8. For information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling:

Use only as directed on the label.

Storage:

Store under lock and key. Store in original container in a cool, dry, place. Keep container tightly closed. Keep out of reach of



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Stability:

Avoid extreme temperatures. Store below 40°C.

Suitable packaging:

Only use containers that are approved specifically for the product.

7. EXPOSURE CONTROL / PERSONAL PROTECTION

For normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations apply.

Respiratory protection:

Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 or equivalent.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's

instructions regarding wearing and maintenance.

Protective clothing when applying:

Protective gloves for chemicals, boots and overall.

Occupational health:

Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke whilst applying or before washing hands and face. Wash hands before breaks and at the end of the working day. Remove soiled clothing immediately and clean thoroughly before using again. Keep working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Solid granule

Colour:

Brown / beige.

Odour:

Weak but characteristic odour.

Particle size: BP 2007

Retained on:

2000 mm NIL

850 µm 15,94 %

425 µm 76,90 %

300 µm 7,08 %

Passing 300 µm 0,25 %

Bulk density:

0,96211 g/ml BP 2007

Water content:

1,579 % CIPAC MT 10

pH:

10,23 (1 % solution) CIPAC MT 75

10. STABILITY AND REACTIVITY

Storage stability:

Stable for up to 2 years under normal warehouse and field conditions.

Conditions to avoid:

Oxidising agents.

Extremes of temperature.

11. TOXICOLOGICAL INFORMATION

Data on formulated product (calculated)

Acute oral LD₅₀:

> 180 000 mg/kg body weight in rats.

Acute dermal LD₅₀:

> 2 000 000 mg/kg in rabbits.

Acute inhalation LC₅₀ (4 h):

Not applicable.

Acute skin irritation:

Non-irritant.

Acute eye irritation:

May cause mild eye irritation

Dermal sensitisation:

Not a skin sensitiser.

Carcinogenicity:

Not carcinogenic

Teratogenicity / Reproductive hazard:

Not teratogenic

Mutagenicity:

Not mutagenic

Neurotoxicity:

Not available



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12. ECOLOGICAL INFORMATION

Degradability: (*Technical material*)

The half-life of imidacloprid in soil is 48-190 days, depending on the amount of ground cover (it breaks down faster in soils with plant ground cover than in fallow soils)

Mobility:

There is generally not a high risk of groundwater contamination with imidacloprid if used as directed.

Accumulation:

Will not accumulate in soil.

Water:

The half-life in water is much greater than 31 days at pH 5, 7 and 9.

ECOTOXICOLOGY:

NB Data on formulated product (calculated)

Birds:

The LD₅₀ is 60 800 mg/kg for bobwhite quail, and 12 400 mg/kg for Japanese quail

Fish:

The 96-hour LC₅₀ is 84 400 mg/l for rainbow trout and 94 800 mg/l for golden orfe.

Daphnia:

LC₅₀ (48h): 11 333 mg/l

Bees:

Acute 48 hour LD₅₀ 1,48 µg/bee. This formulation poses minimal risk to bees but label directions must still be followed.

Algae:

Acute 72 hour EC₅₀, growth > 4 000 mg/l (*Scenedesmus subspicatus*)

Earthworms LC₅₀:

Acute 14 day LC₅₀ 4 280 mg /kg dry soil.

13. DISPOSAL CONSIDERATIONS

Pesticide disposal:

Small amounts of pesticide should be disposed of at an authorised special waste facility. Contact the supplier / manufacturer for advice regarding large amounts of product which have become unusable. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Dispose of waste in accordance with local/national regulations.

Disposal of packaging:

Empty containers retain product residues. Observe all labeled safeguards until container is destroyed. Empty containers must be triple rinsed with water and then punctured before disposal in an approved landfill site or in accordance with local/national regulations.

14. TRANSPORT INFORMATION

UN NUMBER: Not regulated for any mode of transport.

Tremcard No: None necessary.

15. REGULATORY INFORMATION

Risk phrases:

R22 Harmful if swallowed.
R52 Harmful to aquatic organisms.

Safety phrases:

S 1/2 Keep locked up and out of reach of children.
S3 Keep in a cool place
S8 Keep container dry.
S13 Keep away from food, drink and animal feed.
S20/21 When using do not eat, drink or smoke
S 28 After contact with skin wash immediately with plenty of water and soap.
S35 This material and its container must be disposed of in a safe way.

National Legislation:

In accordance with the South African National Traffic Act, 1996 (Act 93 of 1996), the Fire Brigade Act, 1987 (Act 99 of 1987), the Occupational Health and Safety Act, 1993 (Act. No. 85 of 1993 as amended and the Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act (Act No. 36 of 1947 as amended).



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16. OTHER INFORMATION

All information and the instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS. They are believed to be correct and are presented in good faith. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations(s) containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.

REFERENCES

- *The Pesticide Manual*; Thirteenth Edition; Editor Clive Tomlin; Crop Protection Publications, 2003.
- E X T O X N E T [Extension Toxicology Network]; Pesticide Information Profiles.
- Dangerous Goods Regulations; IATA 2006; International Air Transport Association, 49th Edition, Effective 1 January 2008.
- *ADR, Vol.1*, 2005.
- *IMDG Code, Vol. 2*, 2005
- SABS 0265:1999

END OF MSDS.