



## SAFETY DATA SHEET

### WONDER Pest & Green Previously 4:1:1(24) + Insecticide Fertiliser Granules

Date Issued: January 2017

Revision No.: 2

Print Date: 20/11/18

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME:** WONDER Pest & Green 4:1:1 (24)

**SUPPLIER:** EFEKTO  
PO Box 654127  
BENMORE  
2010

**TEL No.** 0861 333586 office hours

#### EMERGENCY TELEPHONE NUMBERS:

**SPILLAGES:** 083 1233 911

**POISONINGS:** 086 199 9071

**Poisons Information Helpline** 0861 555 777 (all hours)

**Griffon Poison Centre** 082 446 8946

**Use:** A vermiculite based, lawn fertiliser granule, which will also control lawn caterpillar.

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#### 2. HAZARDS 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.  
**Fire and explosion hazard:** None.  
**Chemical Hazard:** None  
**Carcinogenicity/Mutagenicity/  
Reproductive/Teratogenicity** See Section 11  
**Routes of exposure:** Ingestion, inhalation, skin and eye contact.  
**Skin Contact:** Prolonged or repeated direct contact with fertiliser may irritate the skin.  
Imidacloprid may be absorbed by the skin.  
**Eye Contact:** Prolonged or repeated direct contact with fertiliser may irritate the eyes.  
**Ingestion:** This would need to be intentional since a large amount would need to be ingested to experience a toxic reaction. Small quantities are unlikely to cause a toxic effect.  
**Inhalation:** Inhalation of dust may irritate nose, throat, and lungs.



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<b>Medical conditions aggravated by Exposure:</b>	No specific medical conditions are known which may be aggravated by exposure to this product.
<b>Long term effects:</b>	No adverse effects are known.
<b>Risk Phrases:</b>	R 22, R52
<b>UN No.:</b>	Not regulated.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Active ingredients:</b>	Nitrogen, Phosphorous, Potassium and imidacloprid
<b>Chemical Name:</b>	N [Nitrogen]; P [Phosphate]; K [Potassium] with
<b>Imidacloprid:</b>	(E)-1-(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine [IUPAC].
<b>CAS No. imidacloprid</b>	138261-41-3
<b>Chemical Family:</b>	Fertiliser plus neonicotinoid
<b>Chemical Formula:</b>	$N_2; PO_4; K + C_9H_{10}ClN_5O_2$

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### 4. FIRST-AID MEASURES

Fertilisers are basically harmless products when handled correctly. This product however, also contains imidacloprid insecticide. Proper care should thus be taken during occupational use to avoid skin contact and inhalation of dust particles. Accidental contamination of food products and water should also be prevented.

<b>Symptoms of poisoning:</b>	No adverse health effects are expected if this product is used according to the directions on the label. However, if the product is misused, signs and symptoms of poisoning are expected to be similar to those of nicotinic poisoning. These would include abdominal pain, diarrhoea, dizziness, fatigue, headache, twitching, cramps, and muscle weakness, including the muscles necessary for breathing.
<b>Skin contact:</b>	Rinse the affected skin area with plenty of cold water and soap
<b>Eye contact:</b>	In case of contact with eyes, hold eyelids open and rinse with water for 15 to 20 minutes. Remove contact lenses after the first 5 minutes, if present, then continue rinsing eye thoroughly with water.
<b>Ingestion:</b>	Do not induce vomiting. Wash mouth out with water. Do not give anything by mouth to an unconscious person.
<b>Inhalation:</b>	Remove source of contamination or move victim to fresh air.
<b>Advice to physician:</b>	There is no antidote. Treat symptomatically and supportively. If ingestion was recent (< 1 hr), activated charcoal (carbo medicalis) may be administered.



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#### 5. FIRE-FIGHTING MEASURES

Fertilisers are not in themselves combustible, but can support combustion, even in the absence of air. When strongly heated, they can melt and decompose.

<b>Extinguishing agents:</b>	Water spray, foam, sand or carbon dioxide.
<b>Fire fighting:</b>	Remove container from fire area if possible. Use a recommended extinguishing agent. Contain runoff to prevent pollution.
<b>Special protective equipment for fire-fighters:</b>	Wear a fire resistant suit with self-contained breathing apparatus. No unprotected person should be allowed in the vicinity.
<b>Decomposition products:</b>	In the event of a fire toxic gases can be released.
<b>Further information:</b>	Cool closed containers, exposed to fire, with water spray. Collect and contain fire control agents for later disposal. Do not allow run-off from the fire fighting to flow into drains or water courses.

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#### 6. ACCIDENTAL RELEASE MEASURES

Contain and sweep up spillage. Collect with a spade and deposit in a secure, properly labeled, closed container for recovery or disposal. Depending on the degree and nature of contamination, dispose of by using as a fertiliser or through an authorised waste facility. In the case of spillage in water, use barrier devices to prevent dispersion of the product. Collect and store spillage for disposal as above. Take care to avoid the contamination of watercourses and drains and inform the appropriate authority in case of accidental contamination of watercourses.

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#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Use only as directed on the label. Avoid contact with skin and eyes. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet.
<b>Storage:</b>	Store under lock and key. Store in original container in a cool, dry, well ventilated place. Keep container tightly closed. Keep out of reach of children, uninformed persons and animals. Keep away from food, drink and animal feed. . Dispose of empty containers as specified on product label.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

No special equipment, apart from gloves, is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

<b>Occupational exposure limits:</b>	<b>Imidacloprid:</b> TLV/TWA Not established <b>Fertiliser:</b> ACHIH for inhalable particulate: TLV/TWA: 10 mg/m <sup>3</sup>
<b>Ventilation:</b>	Avoid high dust concentration and provide local exhaust ventilation where necessary.
<b>Eye Protection:</b>	Eye protection, such as protective glasses or safety goggles, is recommended.
<b>Skin Protection:</b>	Wear an overall, long sleeves and PVC gloves to prevent skin contact.
<b>Occupational health:</b>	Comply with occupational safety, environmental, fire, and other applicable regulations. 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



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and clean thoroughly before using again. Keep working clothes separately.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Granules
Colour:	Off-white
Odour:	Faint
Bulk density:	Not established
Flammability:	Not Flammable
Explosive properties:	No data
pH:	Not applicable
Solubility:	Soluble in water

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#### 10. STABILITY AND REACTIVITY

Storage stability:	Stable for up to 2 years under normal, dry, shaded, warehouse conditions.
Conditions to avoid:	Temperature extremes, strong oxidizing agents and combustible materials,
Hazardous decomposition products:	When in contact with alkaline materials such as lime, may give off ammonia gas. In case of fire, toxic fumes are emitted.

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#### 11. TOXICOLOGICAL INFORMATION

Data for imidacloprid present in the finished product.

Acute oral LD <sub>50</sub> :	> 900 000 mg/kg body weight in rats
Acute dermal LD <sub>50</sub> :	10 000 000 mg/kg in rabbits
Acute inhalation LC <sub>50</sub> (4 h): (figure for a.i.)	> 5 323 mg/meters <sup>3</sup> cubed air in the form of dust. This value represents the maximum attainable airborne concentration
Acute skin irritation:	Non-irritant
Acute eye irritation:	Non-irritant
Dermal sensitisation:	Not a skin sensitiser
Carcinogenicity/:	Not carcinogenic or teratogenic. No reproductive effects.
Teratogenicity/ Mutagenicity:	
Mutagenicity:	Imidacloprid may be weakly mutagenic

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#### 12. ECOLOGICAL INFORMATION

##### ECOTOXICOLOGY:

All data is for imidacloprid present in the finished product.

Birds:	The LD <sub>50</sub> is 304 000 mg/kg for bobwhite quail, and 62 000 mg/kg in Japanese quail
Fish:	96-hour LC <sub>50</sub> is 422 000 mg/l for rainbow trout, 56 000 mg/l for carp, and 474 000 mg/l for golden orfe.
Daphnia:	LC <sub>50</sub> (48h): 170 000 mg/l
Algae:	Acute 72 hour EC <sub>50</sub> , growth > 20 000 mg/l ( <i>Scenedesmus subspicatus</i> )
Bees:	Acute 48 hour LD50 7.4 µg/bee. Imidacloprid is highly toxic to bees. Follow label directions to minimize danger to bees.
Earthworms:	Acute 14 day LC <sub>50</sub> 21 400 mg /kg dry soil



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<b>Degradability:</b>	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).
<b>Water:</b>	The half-life in water is much greater than 31 days at pH 5, 7 and 9.
<b>Mobility:</b>	There is generally not a high risk of groundwater contamination with imidacloprid if used as directed
<b>Accumulation:</b>	Will not accumulate in soil

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#### 13. DISPOSAL CONSIDERATIONS

<b>Fertiliser disposal:</b>	Depending on degree and nature of contamination, dispose of by using as a fertiliser or to an authorised waste facility.
<b>Packaging:</b>	Emptied containers retain product residues. Observe all labeled safeguards until container is destroyed. Combustible containers should be disposed of in pesticide incinerators.

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#### 14. TRANSPORT INFORMATION

<b>UN NUMBER:</b>	Not regulated for any mode of transport
<b>Tremcard No.:</b>	None necessary
<b>IATA/IMDG:</b>	Not regulated

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#### 15. REGULATORY INFORMATION

<b>Risk phrases:</b>	<b>R 22</b>	Harmful if swallowed.
	<b>R52</b>	Harmful to aquatic organisms.
<b>Safety phrases:</b>	<b>S1/2</b>	Keep locked up and out of reach of children.
	<b>S3</b>	Keep in a cool place.
	<b>S8</b>	Keep container dry.
	<b>S13</b>	Keep away from food, drink and animal feed.
	<b>S22</b>	Do not breathe dust.
	<b>S24/25</b>	Avoid contact with skin and eyes.
	<b>S 28</b>	After contact with skin wash immediately with plenty of water and non-abrasive soap.
	<b>S37</b>	Wear suitable gloves.

**National legislation:** In accordance with the South African National Road Traffic Act, 1996 (Act 93 of 1996), the Fire Brigade Act, 1987 (Act 99 of 1987) and the Occupational Health and Safety Act, 1993 (Act. No. 85 of 1993)



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#### 16. OTHER INFORMATION

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. 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 SDS 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 SDS to their own SDS.

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**END OF MSDS.**