



# MATERIAL SAFETY DATA SHEET

## WONDER DEEP GREEN PREVIOUSLY WONDER LAN / KAN

Date Issued: January 2017

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Print Date: 20/11/18

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME:** WONDER DEEP GREEN

**SUPPLIER:** EFEKTO

PO BOX 652147

BENMORE

2010

**TEL No.** 0861 333586 (office hours)

**EMERGENCY TELEPHONE NUMBERS:**

**SPILLAGES:** 083 1233 911

**POISONINGS:** 086 199 9071

**Poisons Information Help Line:** 0861 555 777 (all hours)

**Griffon Poison Centre:** 082 446 8946

**Use:** A Nitrogen containing fertilizer for use on Lawns and Fruit trees.

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### 2. HAZARDS IDENTIFICATION

- May cause irritation.

**Likely routes of exposure:**

Skin and eye contact, ingestion and inhalation.

**Skin Contact:** May irritate the skin.

**Eye Contact:** May irritate the eyes.

**Ingestion:**

Small quantities are unlikely to cause toxic effect.

Ingestion of large quantities can cause severe gastrointestinal irritation and, muscular weakness. In extreme cases (particularly in very young), formation of methaemoglobin ('Blue baby' syndrome) and cyanosis (indicated by blueness around the mouth) may occur.

**Inhalation:** Inhalation of dust may irritate nose, throat, and lungs.

**Long term effects:** No adverse effects are known.

**Symbol:** None

**UN No.:** Not regulated.

**Risk Phrase:** R22

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Active ingredients:**



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Active ingredients.	CAS No.:	EC No.:
Limestone Ammonium Nitrate [not less than 20% N]	-	-

#### Components:

A mixture of ammonium nitrate with calcium carbonate and/or dolomite containing not more than 80% of ammonium nitrate; not less than 20% N, and not more than 0.4% of total combustible material.

**Chemical Name:** Limestone Ammonium Nitrate.

**Chemical Family:** Fertilizer

**Chemical Formula:** -

**NIOSH/RTECS No.:** Not available.

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#### 4. FIRST-AID MEASURES

Fertilizers are basically harmless products when handled correctly.

**Skin Contact:**

Wash the affected area with soap and water.

**Eye Contact:**

Flush/irrigate eyes with copious amounts of water for at least 10 minutes.

Obtain medical attention if eye irritation persists.

**Ingestion:**

Do not induce vomiting. Give water or milk to drink.

Obtain medical attention if more than a small quantity has been swallowed or when relevant symptoms occur after swallowing.

**Inhalation:**

Remove from source of exposure. Obtain medical advice if ill effects occur.

**Advice to physician:** No antidote. Treat symptomatically.

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#### 5. FIRE-FIGHTING MEASURES

**Extinguishing agents:**

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

**Firefighting:**

Remove containers from fire area if possible. Contain fire control agents for later disposal. Use a recommended extinguishing agent. Water can be used to cool unaffected containers. Avoid inhaling hazardous vapours. Keep upwind.

**Hazardous Decomposition Products:** If heated to decomposition, may give off ammonia as well as oxides of sulfur.

**Personal protective equipment:**

Fire may produce irritating or poisonous 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.

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#### 6. ACCIDENTAL RELEASE MEASURES



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Any spillage of fertilizer should be swept up and placed in a clean, labelled open container for safe disposal. Depending on the degree and nature of contamination, dispose of by use as a fertilizer or to an authorised waste facility.

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

**Handling:**

Avoid excessive generation of dust.

Avoid unnecessary exposure to the atmosphere to prevent moisture pick-up.

Avoid contact with eyes. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet

**Storage:**

Keep product in a dry place. Fertilizer granules deteriorate in damp conditions. Avoid unnecessary exposure to the atmosphere to prevent moisture pick-up. The product should not be stored in direct sunlight to avoid physical breakdown due to thermal cycling.

Keep containers tightly closed, in a well-ventilated place. Store away from food, drink and animal feeding stuffs. Keep away from children. Adhere to local regulations.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational exposure limits:**

According to Threshold Limit Value of nuisance dust: 10 mg/m<sup>3</sup> total dust; 5 mg/m<sup>3</sup> respirable dust.

**Precautionary and engineering measures:**

Avoid contact and provide ventilation where necessary.

**Personal Protection:**

Wear suitable gloves when handling the product over long periods.

After handling product, wash hands and observe good hygiene practice.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Granules.

**Colour:** Grey

**Odour:** None

**Flammability:** Not Flammable.

**Explosive properties:** Not explosive as per EEC test A14 (67/548/EEC). The fertilizer has a very high resistance to detonation. This resistance is decreased by the presence of contaminants and/or high temperatures.

Strong heating under severe confinement (e.g. in tubes) may lead to a violent reaction or explosion especially if there is contamination by some of the substances mentioned under Section 10.

**Oxidizing properties:** Not classed as oxidizing material according to Directive 88/379/EEC.

It can support combustion.

**Bulk density:** Normally between 900-1100 kg/m<sup>3</sup>.

**pH:** 4-6 (10% sol.)

**Solubility in water:** NH<sub>4</sub>NO<sub>3</sub> highly soluble; CaCO<sub>3</sub>/MgCO<sub>3</sub> is sparingly soluble.

The product is very hygroscopic.



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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:**

Storage in warm place or in sunlight. Heating above 170°C (decomposes to gases). Avoid contamination by incompatible materials. Unnecessary exposure to the atmosphere. Closeness to sources of heat or Fire. Welding or hot work on equipment or plant which may have contained fertilizers without first washing thoroughly to remove all fertilizers.

**Materials to avoid:**

Combustible materials, reducing agents, acids, alkalis, sulphur, chlorates, chlorides, chromates, nitrites, permanganates, metallic powders and substances containing metals such as copper, nickel, cobalt, zinc and their alloys.

**Hazardous reactions/decomposition products:**

When in contact with alkaline materials such as lime, may give off ammonia gas. (See also Section. 9.)

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#### 11. TOXICOLOGICAL INFORMATION

**Acute oral LD<sub>50</sub> :** >2000mg/kg

**Acute dermal LD<sub>50</sub>:** No Data.

**Acute inhalation LC<sub>50</sub> :** May irritate respiratory tract when inhaled, sore throat, coughing.

**Acute skin irritation:** May irritate the skin.

**Acute eye irritation:** May cause irritation.

**Dermal sensitisation:** No information.

**Carcinogenicity/ Teratogenicity/ Mutagenicity:** No information

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#### 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGY:**

**Harmful to aquatic organisms.**

Low toxicity to aquatic life. TLM: 96 between 10-100ppm

**Mobility:**

Ammonium nitrate is very soluble in water. The NO<sub>3</sub> ion is mobile. The NH<sub>4</sub><sup>+</sup> ion is adsorbed by soil. Limestone and dolomite are regarded as insoluble in water. They occur naturally.

**Persistence/Degradability:**

The nitrate ion is the predominant form of plant nutrition. It follows the natural nitrification/de-nitrification cycle to give nitrogen.

**Bio-accumulation:**

The product does not show any bio-accumulation phenomena.

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#### 13. DISPOSAL CONSIDERATIONS

**Fertilizer disposal:**



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Depending on degree and nature of contamination, dispose of by use as fertilizer by spreading or to an authorized waste facility.

**Packaging:**

Emptied containers retain vapour and 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

**UN No.:** Not regulated.

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#### 15. REGULATORY INFORMATION

**Symbol:** None

**Risk phrases:**

**R22** Harmful if swallowed.

**Safety phrases:**

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

**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

**Compiled by:** Danie Fourie

All information and 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 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 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

- Similar product MSDS.
- ADR 2011, Part 3.
- IMDG Code, 2005 Edition, Vol. 2.
- IATA Dangerous goods regulations, Effective 1 January 2011

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**END OF MSDS.**