



MATERIAL SAFETY DATA SHEET

WONDER ROOT BUILDER BONEMEAL

Date Issued: June 2019

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Revision No.: 4

Print Date: 1/7/19

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: WONDER ROOT BUILDER BONE MEAL

SUPPLIER: EFEKTO

PO BOX 652147

BENMORE

2010

TEL No. 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

Use: For use on new plantings of all plants. It enhances root development and general growth.

2. HAZARDS IDENTIFICATION

- High dust concentrations of air-borne material may cause irritation
- This product has a low toxicity.

Likely routes of exposure: Skin and eye contact, ingestion and inhalation.

Skin Contact: May cause slight irritation to the skin.

Eye Contact: May irritate eyes.

Ingestion: Small quantities are unlikely to cause toxic effect. Swallowing of large amounts is unlikely. Large quantities may give rise to gastro-intestinal disorders.

Inhalation:

High dust concentrations of air-borne material may cause irritation of the nose and upper respiratory tract with symptoms such as sore throat and coughing.

Long term effects: No adverse effects are known.

Fire and thermal decomposition products:

Inhalation of decomposition fumes can cause irritation and corrosive effects on the respiratory system.

Symbol: None

Risk Phrases: None

UN No: .Not regulated.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredients:



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Active ingredients.	CAS No.:	EC No.:
Bone phoshate	68409-75-6	270-061-8
Contains: N:P:Ca	-	-

Chemical Name: Bone meal
Chemical Family: Organic Fertilizer
Chemical Formula: None
NIOSH/RTECS No.: Not available.

4. FIRST-AID MEASURES

Bone meal is basically a harmless product 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 to dusts. Obtain medical advice if ill effects occur.

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.

Personal protective equipment:

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

6. ACCIDENTAL RELEASE MEASURES

Bone meal is a plant food; however large spills can kill vegetation.

Any spillage of bone meal powder 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 send to an authorised waste disposal 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 contact with eyes. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet

Storage:

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:

No specific official limit. We suggest the OSHA nuisance dust limit of 15 mg/m³ or the ACGIH TLV of 10 mg/m³ of air for an eight-hour time-weighted average.

Precautionary and engineering measures:

Avoid contact and provide local exhaust or other ventilation where necessary.

Personal Protection:

Wear suitable gloves when handling the product over long periods. If dust concentration exceed recommended exposure limits, use NIOSH-approved dust respirators. If high dust concentrations exist, tight-fitting goggles are recommended to reduce dust exposure to the eyes.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder
Colour: Light straw coloured.
Odour: Animal odour.
Flammability: Not Flammable.
Explosive properties: No data.
Bulk Density: No data.
pH: Not applicable.
Solubility at 20°C (g/L): Insoluble.

10. STABILITY AND REACTIVITY

Storage stability:

Stable under normal cool, dry shaded warehouse conditions.

Incompatibility: None determined.

Hazardous decomposition products:

None determined.

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀: No Data.
Acute dermal LD₅₀: No Data.
Acute inhalation LC₅₀: No information.



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Acute skin irritation: May cause slight skin irritation.

Acute eye irritation: May irritate the eyes.

Dermal sensitisation: No information.

Carcinogenicity/ Teratogenicity/ Mutagenicity:

Bone meal is not considered to be a cancer-causing material by OSHA, NIOSH, or ARC.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY:

DATA NOT REQUIRED.

NO INFORMATION CURRENTLY AVAILABLE.

13. DISPOSAL CONSIDERATIONS

Disposal:

Depending on degree and nature of contamination, dispose of by use as fertilizer by spreading, or to send to an authorized waste facility. Uncontaminated product can generally be disposed of by burial in an approved land disposal facility

Package product wastes:

Emptied containers retain vapour and product residues. Observe all labeled safeguards until container is destroyed. Combustible containers should be disposed of in a incinerator.

14. TRANSPORT INFORMATION

UN No.: Not regulated.

15. REGULATORY INFORMATION

Symbol: None

Risk phrases: None.

Safety phrases:

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

S24/25 Avoid contact with skin and eyes.

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)

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



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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

- European Fertilizer Manufacturers association, "Guidance for Compilation of safety Data Sheets for Fertilizer Materials", Ammonium Sulphate.
- Similar product MSDS.
- ADR 2011, Part 3.
- IMDG Code, 2005 Edition, Vol. 2.
- IATA Dangerous goods regulations, Effective 1 January 2011

END OF MSDS.