



MATERIAL SAFETY DATA SHEET

WONDER SUPERPHOSHATE

Date Issued: January 2017 date.

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Revision No.: 4

Print Date: 20/11/18

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: WONDER SUPERPHOSHATE

SUPPLIER: EFEKTO

PO BOX 652147

BENMORE

2010

TEL No. 0861 333 586 (**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: For use on new plantings of all plants. It enhances root development and general growth.

2. HAZARDS IDENTIFICATION

- May cause irritation.

Likely routes of exposure:

Skin and eye contact, ingestion and inhalation.

Ingestion:

Small quantities are unlikely to cause toxic effect. Swallowing of large amounts is unlikely.

Large quantities may give rise to gastro-intestinal disorders.

Eyes:

The dust may be irritating to the eyes resulting in redness and watering, or eye infection.

Skin:

Skin contact with this product and dust may result in skin irritation and in some people may lead to skin sensitization.

Inhaled:

Inhalation of dust may irritate, inflame or sensitize the nose, throat and lungs, and aggravate pre-existing conditions such as asthma and bronchitis.

Chronic health effects:

Repeated inhalation of dust may result in respiratory irritation, inflammation or sensitization resulting in illnesses ranging from hay fever and asthma to pneumonia (eg Legionnaire's disease) and pneumonia-like illnesses.

UN No.: Not regulated.

Risk Phrase: R22; R36/38

3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredients:



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Active ingredients.	CAS No.:	EC No.:
Superphosphate 8.3 % P	-	-

Components: This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

Chemical Name: Superphosphate.
Chemical Family: Fertilizer
Chemical Formula: $\text{Ca}(\text{H}_2\text{P}_2\text{O}_7)_2(\text{s}) + 2\text{CaSO}_4 \cdot 2\text{H}_2\text{O}(\text{s})$
NIOSH/RTECS No.: Not available.

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.

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: May evolve toxic gases (Phosphorus / Sulphur oxides) when heated to decomposition.

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.

6. ACCIDENTAL RELEASE MEASURES

Spillage:



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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 authorized waste facility.

Take care to avoid the contamination of watercourses and drains and inform the appropriate authority in case of accidental contamination of watercourses.

7. HANDLING AND STORAGE

Handling:

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.

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.

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.

Engineering controls:

All work should be carried out in such a way as to avoid skin contact and minimize exposure to dust.

Respiratory protection:

Avoid breathing dust. Wear an approved respirator.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Granules

Colour: Light grey.

Odour: Odourless

Flammability: Not Flammable.

Explosive properties: No data.

Bulk Density: Varies with moisture content.

pH: 3-5

Solubility at 20 °C (g/L): Soluble.

10. STABILITY AND REACTIVITY

Storage stability:

Stable for up to 2 years under normal dry, shaded warehouse conditions.

Conditions to avoid: None.



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Incompatibility: No information.

Hazardous decomposition products:

May evolve toxic gases (Phosphorus / Sulphur oxides) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀: 17500 mg/kg

Acute dermal LD₅₀: No Data.

Acute inhalation LC₅₀: Could cause irritation.

Acute skin irritation: May irritate the skin with prolonged contact.

Acute eye irritation: Dust could cause irritation.

Dermal sensitization: No information.

Carcinogenicity/ Teratogenicity/ Mutagenicity: Superphosphate is not a cancer-causing material.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY:

Persistence/ Degradability: Not harmfully persistent, no harmful degrading.

Mobility: Only mobile in significant water.

13. DISPOSAL CONSIDERATIONS

Fertilizer disposal:

Dispose of by use as fertilizer by spreading or send it 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.

14. TRANSPORT INFORMATION

UN No.: Not regulated.

15. REGULATORY INFORMATION

Symbol: None

Risk phrases:

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

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)



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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.
- Paton Fertilizers, Australia, Superphoshate MSDS, Dec. 2008
- ADR 2011, Part 3.
- IMDG Code, 2005 Edition, Vol. 2.
- IATA Dangerous goods regulations, Effective 1 January 2011

END OF MSDS.