



MATERIAL SAFETY DATA SHEET

SHAKE N GROW

BLUE HYDRANGEA (38) PLANT FOOD WITH MICRO-ELEMENTS

Date Issued: May 2014

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Revision: 2

Print Date: 20/11/18

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: SHAKE N GROW
BLUE HYDRANGEA (38) PLANT FOOD WITH MICRO-ELEMENTS.

SUPPLIER: EFEKTO
PO BOX 652147
BENMORE
2010

TEL No. 0861 333 586

EMERGENCY TELEPHONE NUMBERS:

SPILLAGES: 083 1233 911

POISONINGS: 086 199 9071

Poison Information Helpline 0861 555 777 (all hours).

Griffon Poison Centre 082 446 8946

Use: A Fertilizer powder for Blue Hydrangeas.

2. HAZARDS IDENTIFICATION

- Harmful
- May irritate the skin and eyes.

These fertilizers have a low toxicity.

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

Skin Contact: May irritate the skin.

Eye Contact: May cause irritation following contact.

Ingestion: Small quantities are unlikely to cause toxic effect.
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 gases can cause irritation and corrosive effects on the respiratory system.

Risk phrases: R22, R36/38

UN No.: Not regulated.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredients:

Active ingredients.	CAS No.:	EC No.:
N 150.0 g/kg	7727-37-9	231-783-9
P 100.0 g/kg	98059-61-1	
K 130.0 g/kg		
Micro-elements*		

Components: * The fertilizer powder consists of a mixtures containing N:P:K This product also contains micro-the following micro-elements.

Fe 4 g/kg

Cu 0,4 g/kg

Mn 0,85 g/kg

B 0,44 g/kg

Mo 0,01 g/kg

Zn 0,3 g/kg

Al 1.5 g/kg

Chemical Name: N [Nitrogen]; P [Phoshate]; K [Potassium]

Chemical Family: Fertilizer

Chemical Formula: N₂; PO₄ K⁺;

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 to dusts. Obtain medical advice if ill effects occur.

Advice to physician:

There is 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.

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

Any spillage of the fertilizer 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 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:

To maintain the quality, store in covered warehouse at temperatures between 0° and 50° C. Keep containers tightly closed, in a well-ventilated place. Store away from food, drink and animal feeding stuffs. Keep away from children and unauthorized adults. Adhere to local regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:

No specific official limit.

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: Powder
Color: May vary in color.
Odour: None.
Flammability: Not Flammable.
Explosive properties: No data.
Bulk Density: No data.
pH: Not applicable
Solubility at 20⁰C (g/L): Totally water soluble.

10. STABILITY AND REACTIVITY

Storage stability:
Stable for up to 2 years under normal dry, shaded warehouse conditions.
Incompatibility: No information.
Hazardous decomposition products: Oxides of nitrogen and sulphur.

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀: No data.
Acute dermal LD₅₀: No data.
Acute inhalation LC₅₀: No information.
Acute skin irritation: May irritate skin.
Acute eye irritation: Irritating. Can cause damage to eyes.
Dermal sensitisation: No information.
Carcinogenicity/ Teratogenicity/ Mutagenicity: No information

12. ECOLOGICAL INFORMATION

NO DATA IS AVAILABLE.
Not expected to pose a problem with normal usage.

13. DISPOSAL CONSIDERATIONS

Fertilizer disposal:
Depending on degree and nature of contamination, dispose of by use as fertilizer by spreading, or to an authorized waste 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 pesticide incinerators.



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14. TRANSPORT INFORMATION

UN NUMBER: 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)

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.
- Product label..
- ADR 2011, Part 3.
- IMDG Code, 2005 Edition, Vol. 2.



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- IATA Dangerous goods regulations, Effective 1 January 2011

END OF MSDS.