

MATERIAL SAFETY DATA SHEET

DYNAROOT No. 2

Date Issued: April 2016 and is valid for 3 years from this date.

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Revision: 3

Print Date: 3/10/16

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: DYNAROOT No.2

MANUFACTURER: PBR TRADING INTERNATIONAL

PO BOX 414
PRINGLE BAY
7196

TEL No. 028 273 8024

EMERGENCY TELEPHONE NUMBERS:

SPILLAGES: 083 556 0670

Fax: 086 519 6874

POISONINGS:

National Poison Centre 021-9386084 (office hours).

021-9316129 (after hours).

082 446 8946

Use: Dustable powder growth stimulant.

2. HAZARDS IDENTIFICATION

- Harmful if swallowed.
- Slight irritant.

Likely routes of exposure:

Skin and eye contact, ingestion and inhalation.

Inhalation: It is slightly irritant to mucous membranes if inhaled.

Acute exposure: May cause reversible irritation

Chronic exposure: Not available

Skin contact: Not considered a primary skin irritant

Eyes contact: May cause irritation.

Ingestion: No known human intoxication.

Risk phrases: R22, R36/37

UN No.: Not regulated.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredients:

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Active ingredients.	CAS No.:	EC No.:
Indole-3- Butyric acid(IBA) 3g/kg	133-32-4	205-101-5
Kaolinite/Quartz Mixture 25<50		
Magnesium Silicate 50<75	14807-96-6	

Chemical name: 1H-Indole-3-butanoic acid (IUPAC)[IBA]

Chemical Family: Plant growth regulator.

Chemical Formula: C₁₂-H₁₃-N-0₂[Indole-3- Butyric acid]

NIOSH/RTECS No.: None

4. FIRST-AID MEASURES

Eye contact: Rinse eyes immediately with plenty of clean water, occasionally lifting the upper- and lower eyelids, for up 10 - 15 minutes.

Ingestion: Wash mouth with water. Give 2 - 4 cups of milk. Keep patient at rest. If required, obtain medical aid.

Skin: Remove contaminated clothing. Wash with soap and water. If required, obtain medical aid.

Advice to Physician: Non specific antidote known, symptom and support treatment. Give summary of symptoms/product info to Physician.

5. FIRE-FIGHTING MEASURES

Extinguishing methods: Dynaroot is not combustible. In case of fire, use water spray, foam, dry powder, carbon dioxide or sand.

Special exposure hazards: May give toxic fumes if heated to decomposition

Protective fire fighting equipment: Wear self contained breathing apparatus.

Fire fighting guidance: If not at risk, remove intact containers from the fire, otherwise, spray intact containers with water to keep cool. If possible, contain fire-fighting water by bunding area with sand or earth.

6. ACCIDENTAL RELEASE MEASURES

For small amounts:

Avoid breathing dust and other personal contact. Wear gloves. Using a suitable vacuum cleaner, preferably, vacuum up the material, or cover with inert material (e.g. sand, earth, vermiculite, etc), carefully sweep up and place in a labelled receptacle for safe disposal.

For large amounts:

Deal with immediately. Keep people away and upwind.

Avoid contact with eyes, skin and clothing, wear coveralls, rubber boots, gloves and goggles or face shield.

If contamination of drains, streams, water courses, etc is unavoidable, warn the local Environment authorities immediately.

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7. HANDLING AND STORAGE

Handling:

Order only what is likely to be required for the season's use. No special precautions required when handling unopened containers. Wash hands before eating, drinking or smoking.

Storage: Store in a dry secure area, designated for pesticides. Store away from seeds, fertilizer and animal food. No special technical storage measures required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Product: None assigned

Kaolinite.Quartz mixture Dust respirable: UK EH40: OES 2mg/m³ 8h TWA

Magnesium silicate Dust total inhalable: UK EH40 OES 10mg/m³ 8h TWA

Engineering Control Measures: Refer to COSHH assessments. Engineering controls should be used where practicable in preference to personal protection.

Respirator: Wear dust mask, conforming to EN 149 FFP2S minimum.

Hand Protection: Wear chemical resistant PVC or nitrile gloves.

Eye protection: Wear dust proof safety goggles, conforming to BSEN 166.

Clothing: Wear PVC or chemical resistant disposable overalls and PVC boots

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	A Crystalline, solid.
Color:	Creamy yellow.
Odour:	Characteristic.
Vapour pressure:	<10 ⁻⁷ MBAR A 60° C
Flash point:	Not applicable.
Density:	0.7
pH:	6.5
Solubility at 20°C (g/L):	Insoluble @ 20 °C.

10. STABILITY AND REACTIVITY

Storage stability:

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

Incompatibility: None.

11. TOXICOLOGICAL INFORMATION

This product is of low toxicity

Acute oral LD₅₀ :

IBA technical

Oral mouse LD₅₀: 100 mg/Kg

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This material has very low toxicity.

Oral LD₅₀ in the rat of a similar product is (0.8%) is over 12500 mg/kg.

Dermal LD₅₀ in the rat of a similar product is (0.8%) is over 1250 mg/kg.

Acute inhalation LC₅₀: May be irritant to mucous membranes of nose and throat.

Acute skin irritation: May irritate skin.

Acute eye irritation: May cause irritation to the 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.

Degradability: Rapid degradation in various soils

13. DISPOSAL CONSIDERATIONS

Product: All disposal arrangements should be in accordance to Special Waste Regulations.

Containers: Puncture containers, if lightly contaminated, for landfills.

14. TRANSPORT INFORMATION

UN NUMBER: Not Regulated

15. REGULATORY INFORMATION

Hazard symbols: None

Risk phrases:

R22 Harmful if swallowed

R36/37 Irritating to eyes and respiratory system.

Safety phrases:

S2 Keep out of the reach of children

S3/7/9 Keep container tightly closed in a cool, well-ventilated place.)

S8 Keep container dry.

S24/25 Avoid contact with skin and eyes.

S35 This material and its container must be disposed of in a safe way

S37 Wear suitable gloves

S49 Keep only in the original container

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

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

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

END OF MSDS.