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MATERIAL DATA SAFETY SHEET

ECOFARMA HUMEGRO DKP

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Ecofarma HUMEGRO DKP
Alternative Name	
Recommended Use	Agriculture, turf, ornamental
Manufacturer/Distributor	Ecofarma Southern Africa (Pty) Ltd Unit 3, Pretoria Industrial Park 50 Delfos Road, Pretoria Industrial Tshwane, Gauteng, South Africa info@ecofarma.co.za www.ecofarma.co.za
Emergency Telephone Number	+27(0)64 727 7927

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Humic Acid 70.1 g/L (52.4 g/kg) Phosphorous 56.6 g/L (42.3 g/kg) Potassium 157.2 g/L (117 g/kg)
Synonyms/Common Names	Humates, Humic DKP, Di-Potassium-Phosphorous Humic
Category	Group 3 Fertiliser (RSA, Act 36 of 1947)
Registration No.	TBD

SECTION 3 — HAZARDS IDENTIFICATION

Physical hazard	Not applicable
Health Hazard	May cause eye irritation; irritant to the mouth, throat and stomach if ingested.
Environmental Hazard	Not applicable

SECTION 4 — FIRST AID MEASURES

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Most important symptoms/effects: acute or delayed	Irritation of eyes
General information	Seek medical attention if any irritation exists

SECTION 5 — FIRE FIGHTING MEASURES

Extinguishing media	Use Media appropriate for surrounding fire
Special Hazards arising from substance or media	During fire, gases hazardous to health may be formed. Heating (flames) of closed or sealed containers may cause violent rupture of container due to thermal expansion of compressed gases. If exposed to substance refer to section 4.
Advice for firefighter	Approach fire with appropriate firefighting uniform and equipment. Move storage containers away from fire if safe to do so. Keep storage containers cool with water spray if in fire. If firefighter experiences any irritations: he/she must obtain medical attention

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Move people away from spillage. Wear appropriate protective clothing. If possible minimise spillage area. If spillage area is large: contact local authorities
Environmental precautions	Avoid environmental spillage. Contact local authorities in the event of spillage to aquatic environment.
Methods and material for containment and cleaning up	Always wear protective uniform when cleaning up spill. Refer to section 8
Small spill	Clean up with cloth and rinse area with water. Other basic cleaning equipment suitable for clean-up. Clean all equipment after use
Large spill	Contain spillage area by diking spilled material. Absorb with vermiculate
Reference to other sections	Refer to section 13 for suitable disposal

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling	Do NOT ingest (breathing or swallow). Wear protective clothing and observe good industrial hygiene practices. Always wash hands and equipment after handling. Do not eat or drink close to storage of material
Conditions for safe storage, including any incompatibilities	Store in original container. Store in cool dry area out of direct sunlight. Ensure that containers are tightly sealed and prevent mixing of foreign materials unless advised otherwise by manufacturer. Refer to section 10 for incompatible materials.

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

Control parameters	N/A - No established limits
Engineering controls	Provide eyewash station and suitable ventilation
Exposure controls	
Respiratory	If area does not have good ventilation: wear suitable respiratory equipment.
Eyes	Wear protective glasses or goggles

Skin	Wear appropriate protective clothing and gloves when handling material.
General hygiene considerations	Do not smoke, eat or drink when handling material. Wash clothing and hands regularly.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark Brown, Black liquid
Odour	Musty
pH	9-11
Melting/freezing point	N/A
Initial boiling point and boiling range	N/A
Flash point	800 degrees celcius
Evaporation rate	Not measured
Flammability	N/A
Upper flammability or explosive limits	N/A
Lower flammability or explosive limits	N/A
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	1.339
Solubility in water	Yes-soluble
Partition coefficient n-octanol/water (Log Kow)	Not measured
Auto-ignition temperature	Not measured
Decomposition temperature	Not measured
Viscosity	Not measured

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Avoid interaction with heat (flames), oxidizers, acids or alkalis (see details below in this section).
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None Known
Conditions to avoid	Temperatures above 49°C and below 0°C
Hazardous decomposition products	None Known

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Oral	Not determined
Inhalation	Not determined
Skin contact	Not determined
Eyes contact	Not determined
Chronic	No data available
Reproductive	No data available
Mutagenicity	No data available

SECTION 12 ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and degradability	No data available
Bio-accumulative potential	Not measured
Mobility in soil	Not determined
Results of PBT and vPvB assessment	N/A
Other adverse effects	No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods	Dispose of in accordance to local legislation and environmental regulations. Do not dispose of in ponds, waterways or any aquatic environment.
Contaminated product	Do not return contaminated material or spilled material back into uncontaminated material or storage packaging
Packaging	Packaging may be reused or recycled unless packaging is contaminated or broken then it should be discarded in accordance with local legislation.

SECTION 14 TRANSPORT INFORMATION

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	Not regulated as dangerous goods
Packing group	N/A

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	Not classified as a substance hazardous for supply
Chemical safety assessment	Not regulated

SECTION 16 OTHER INFORMATION

Date MSDS Prepared	16 May 2019
Date of Issue	
Date of Previous Issue	
Version	1
MSDS Prepared By	P de Jager

Notice to Reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.