

# Material Safety Data Sheet

	Issue No	1.2	Revision, date	10/01/2011	Print date 10/01/2011
1	IDENTIFICATION OF	THE SUE	STANCE/PREPAR	ATION AND TH	IE COMPANY/UNDERTAKING
Produ	ct Name		GREEN MUSCLE		on for microbial pest control agent
Suppli	er		Technical Material / Becker Underwood PO Box 15132 ASHWOOD 3605 SOUTH AFRICA Emergency telepho	South Africa	lation + 27 31 769 2003
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2.	COMPOSITION/INFO	RMATION	N ON INGREDIENT	S	
Produc	ct characterisation		Spore concentrate approx. 5x10 <sup>10</sup> conc		enic fungus Metarhizium anisopliae var. Acridum,
3.	HAZARDS IDENTIFIC	ATION			
Health	effects Skin Eyes Inhalation Ingestion Physical/chemical effe		become sensitised	to this material, It is extremely u	mal conditions of use. Certain individuals may as with any other proteinaceous dust. nlikely that a sufficient quantity would be accidentally
4.	FIRST AID MEASURE	S			
Skin contact Eye contact Inhalation			attention. Clear any blocke advice if any signs	n water for 15 m d airways. Rem of sensitisation (	ecaution. inutes. If any irritation persists obtain medical ove affected person to fresh air. Seek medical (pain in chest, headache, flu like symptoms), nsitive or recovery is delayed.
5.	FIRE-FIGHTING MEA	SURES			
Exting be use Specia	uishing media uishing media which mu ed for safety reasons al exposure hazards al protective equipment	st not	clouds may be form ignition.	not burn readily, l ned in air. Avoid	or water spray. but as with many organic powders, flammable dust creating dust and keep away from sources of loves and boots, and self-contained for fire-fighters
opeoid			breathing apparatus		



## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use respiratory protection and protective clothing. Ensure adequate ventilation.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Use a suitable vacuum cleaner, to avoid the generation of airborne dust. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Dampen air by spraying a fine mist of water - spores heavier; less air borne dust.

## 7. HANDLING AND STORAGE

Handling precautions	Do not eat, drink or smoke whilst handling the product.
	Avoid formation of respirable particles.
	The product swells on contact with water - Do not wear contact lenses.
Storage conditions	Avoid wet and humid conditions. Store away from light in a cool, dry and dark place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters	UK HSE EH40 Dust: 10mg/m3 8 - hour TWA total inhalable dust. 4 mg/m 38 - hour TWA respirable dust.
Engineering measures	Local exhaust ventilation required if dust is created.
Personal protection equipment. Respiratory protection Hand protection Eye protection Skin and body protection	Effective dust mask (e.g. 3M Dust Respirator: 8810). Rubber or plastic gloves. Goggles. Lightweight protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Colour Form Odour pH as supplied Boiling point/range Melting point/range Flash point Flammability (solid, gas) Autoignition temperature Explosive properties Oxidising properties Vapour pressure Solubility (Water solubility)	Grey / Green Powder None. Not applicable. Not applicable. Not applicable. Not determined. Not determined. This product has no explosive properties, except in the event of dust formation. Not an oxidiser. Not applicable. Insoluble
Solubility (Water solubility) Partition coefficient (n-octanol/water)	Not applicable. Insoluble. Not applicable.

# 10. STABILITY AND REACTIVITY

Stability	Stable at ambient temperatures.
Conditions to avoid	Avoid extremes of temperature and wet and humid conditions.
Materials to avoid	No special precautions other than good housekeeping of chemicals.
Hazardous decomposition products	No decomposition if stored normally.

# 11. TOXICOLOGICAL INFORMATION

Acute toxicity:	LD <sub>50</sub> /ORAL/RAT (Limit test) > 2000 mg/kg.
Eye irritation:	Non-irritant (rabbit).
Skin irritation:	Non-irritant (rabbit).
Acute pulmonary toxicity/infectivity:	$LC_{50}$ > 4850 mg/m3, Non-infective to mammals (rat).
Acute intra - peritoneal injection:	Non-infective to mammals (rat).
Mutagenicity:	(Not mutagenic in AMES Test).



### 12. ECOLOGICAL INFORMATION

Non pathogenic to:

fish, Daphinia, algae.

## 13. DISPOSAL CONSIDERATIONS

Unwanted material should be incinerated or sterilised in an autoclave for 40 minutes at 120°C and then disposed of as non-hazardous waste in accordance with local regulations.

## **14. TRANSPORT INFORMATION**

UK road/rail	Not classified as dangerous in the meaning of transport regulations
IMDG	Not classified as dangerous in the meaning of transport regulations
ICAO	Not classified as dangerous in the meaning of transport regulations
ADR	Not classified as dangerous in the meaning of transport regulations

## 15. REGULATORY INFORMATION

Supply classification Hazard symbol(s)	None
Risk phrases	May cause sensitisation by inhalation
Safety phrases	When handling or spraying wear suitable respiratory equipment

#### 16. OTHER INFORMATION

Recommended use Active ingredient for microbial control agent.

Further information

Product classified and safety data sheet produced according to EEC directives as implemented in the UK by the Chemicals (Hazards Information and Packaging) Regulations.

The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation

