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MSDS - Material Safety Data Sheet

Conforms to ISO 11014-1 and the South African Occupational Health & Safety Act 86 of 1993.

SECTION 1. COMPANY INFORMATION, PRODUCT NAME & DESCRIPTION

Product Name : DAMFIX Bio

Product Description : Natural Microbes used for the Disposal of Human Waste & Odour Control.

Manufacturer : BlueStream (per agreement with Kannar Earth Science)

Distributor : DamPro

SECTION 2. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name : Non-Pathogenic bacteria, [Bacillus Subtillis] Calcium Nitrate Cn.

EC Classification : Not Classified.

CAS No : Bacillus Subtilis 7558-79-4 Calcium Nitrate 13477-34-4.

Non-Hazardous : OEL: 10mg/m³ (Not greater than 2%).

SECTION 3. HAZARDOUS IDENTIFICATION

Main Hazard : May cause irritation to skin and eyes

Flammability : Fire retardant

Chemical hazard : None

Biological hazard : None found

Reproduction hazard : None found

Eye Effects : May cause irritation

Health Effects - Skin : May cause irritation to sensitive skin

Health Effects - Ingestion : Will have emetic effect

Health Effects - Inhalation : May cause irritation

Carcinogenicity : Not found

Mutagenicity : Not found

Neurotoxicity : Not found

SECTION 4. FIRST AID MEASURES

Product in Eye	: Check for and remove any contact lenses. Immediately flush with plenty of water for at least 15 minutes. Get medical attention, if irritation persists.
Product on Skin	: In case of contact wash off with water.
Product Ingested	: The product will produce an emetic effect.
Product Inhaled	: Not expected to require first aid measures. Remove to fresh air. Get medical attention for any breathing difficulties.

SECTION 5. FIRE FIGHTING MEASURES

Extinguishing Media	: Not considered a fire hazard.
Special Hazards	: Not considered an explosion hazard.
Protective Clothing	: In the event of a fire, wear full protective clothing and an approved self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	: Ventilate area of spill.
Environmental Precautions	: Will not harm the environment.
Small and large spills	: Collect any spilt material and place in suitable container.

SECTION 7. HANDLING AND STORAGE

Handling / Storage	: Store in cool dry area.
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SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Chemical Name	Recommended Limit		Additional Information
Non-Pathogenic Bacteria Powder Liquid Calcium Nitrate	TWA –OEL RL mg/m ³	Short Term OEL RL, mg/m ³	
	10 2	20 4	
	10	-	

Engineering Control Measures	: Use local exhaust ventilation or other engineering controls to keep air borne levels below recommended exposure limits.
Personal Protection	: If exposure limit exceeded and engineering controls are not feasible wear an approved respirator.
Personal Protection – Hand	: Gloves.
Personal Protection – Eye	: Goggles.
Personal Protection – Skin	: Overalls buttoned to neck and waist.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Brown liquid.
Odour	: Yeast like smelly odour.
pH	: 7.2
Boiling Point	: Not Applicable.
Melting Point	: Not Applicable.
Flash Point	: Not Applicable.
Flammability	: Fire retardant.
Auto-flammability	: Not determined.
Explosive Properties	: None.
Oxidising Properties	: None.
Vapour Pressure	: Not determined.
Density	: ~1g/cm ³ /~1m/mg ³
Solubility	: Insoluble.
Solubility Solvent	: Not known.
Solubility Coefficient	: Not Applicable.

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Harsh chemical /toxic environments.
Incompatible Materials	: Harsh chemicals.
Hazardous Decomposition Products	: Not Applicable.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingredient Name	LD50	Route	Species	Description
Non-Pathogenic Bacteria Calcium Nitrate	5000mg Not Available	Oral	Rat	Non-toxic Expected low toxicity

* Toxicity description from Department of Water Affairs and Forestry's Minimum Requirement for the Handling classification and Disposal of Hazardous Waste, 2nd Edition, Pretoria, South Africa, 1998.

Skin and Eye Contact	: None Found.
Chronic Toxicity	: None Found.
Carcinogenicity	: None Found.
Mutagenicity	: None Found.
Reproductive Hazards	: None Found.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity - Fish.

Ingredient	LC 50	Period	Species	Description
Non-Pathogenic Bacteria Calcium Nitrate	5000mg/kg Not Known	96hr	Tilapia	Non-Toxic Expected low toxicity

- Toxicity description from Department of Water Affairs And Forestry's s for the Minimum Requirement for the Handling, Classification and Disposal of Hazardous Waste, 2nd Edition, Pretoria, South Africa, 1998.

Biodegradability : Ingredients biodegrade aerobically and anaerobically.

Bio-accumulation : Not expected to bio accumulate.

Mobility : Low in water due to water insolubility of ingredients.

Environmental Fate - Air : Not Known.

Environmental Fate - Soil : Will be mobile in soil.

Environmental Fate - Water : Will biodegrade in water. High concentrations in water can result in utilisation of oxygen and could impact on the aquatic species.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods : Can safely be flushed to sewer.

Disposal of Packaging : Empty containers should be triple rinsed with water: the rinsed water can be disposed to sewer. Drain container and discard to general waste.

UN Number : Not regulated.

SABS 0228 : Not regulated.

SECTION 14. TRANSPORT INFORMATION

Tremcard Number : Not Applicable.

SECTION 15. REGULATORY INFORMATION

SABS 0263

Indication of Danger : None.

Risk Phrases : Avoid contact with open wounds.

Safety Phrase : Keep out of reach of children.

SECTION 16. OTHER INFORMATION

Other Special Considerations : Not identified.

History

Revised by Mark Hinton : 30 September 2024

NOTICE TO READER:

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