

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product: BACZYME SEWAGE POWDER (SP)

Date issued: August 2015

Company details:

Name: BACZYME

Address: 28 Khyber Lane,
Khyber Rock, Sandton

Contact Person: Gary Hinde

Tel: +27 (0)82 522 7484

Email: gary@baczyme.org.za

Trade Name: Meridian Paints (Pty) Ltd T/A BACZYME

Chemical Family: Propriety mix of microbes and biodegradable powders.

Chemical Name: N/A

Synonyms: N/A

Uses: As a powder product containing activation nutrients for effluent treatment.
Bio-remediates wastes and controls odours.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS NO	% m.m ⁻¹	SYMBOL	R-[PHRASES (EUD 67/548/EEC)]	S-[PHRASES (EUD 67/548/EEC)]
Calcium carbonate	471-34-1	10 - 30	Xi	37/38-41-36/38-36	26-36/37/39-37/39
Montmorillonite clay	1302-78-9	1 - 10	N/A	20/22-8	2, 13, 22-24/25
Magnesium sulphate	7487-88-9	0.5 - 1.5	Xi	36/37/38	2, 13, 22-24/25-36-26
Manganese sulphate	7785-87-7	0.01 - 0.10	N, Xi	36/38, 50/53	2, 13, 24/25,36/37/39, 46
Iron sulphate	7782-63-20	0.01 - 0.1	Xi, Xn	22, 36/38	2, 13, 24/25,36/37/39, 46

Non-hazardous components:

Bacterial mixture, non-hazardous natural environmental isolates, non-genetically modified, non-pathogenic and non-carcinogenic.
Food grade activation nutrients.



MATERIAL SAFETY DATA SHEET

3. HAZARDS IDENTIFICATION

Main Hazard: As above.

Flammability: None.

Chemical hazard: As per Section 2.

Biological hazard: No known effect.

Reproduction hazard: No known effect.

Eye effects: May be irritating to eyes.

Health effects – skin: No known effect.

Health effects – ingestion: Not to be ingested.
Effects unknown.

Health effects – inhalation: No known effect.

Carcinogenicity: No known effect.

Mutagenicity: No known effect.

Neurotoxicity: No known effect.

4. FIRST AID MEASURES

Product in eye: Wash with saline.

Product on skin: Wash with water.

Product ingested: Get medical attention.

Product inhaled: Remove to fresh air.

5. FIRE FIGHTING MEASURES:

Extinguishing media: CO2

Special hazards: None.

Protective Clothing: Dust mask

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Dust mask

Environmental precautions: None.

Small spills / Large spills: Collect product and dispose as normal solid waste to landfill. Wash down area with water and dry.

7. HANDLING AND STORAGE

Handling: No special precautions.

Handling/storage precautions: Store under cool dark ambient conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits: No data available.

Engineering control measures: None required.

Personal protection – respiratory: Dust mask.

Personal protection – hand: None required.
Use gloves in case of skin sensitivity.

Personal protection – eye: None required.
Use goggles when there is risk of eye exposure.

Personal protection – skin: None required.
Avoid contact with skin in case of sensitivity.

Other protection: Use according to supplier instructions.



MATERIAL SAFETY DATA SHEET

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light Brown powder

Odour: Natural

pH: 7.0 ± 1.0 (dissolution)

Boiling point: N/A

Melting point: N/A

Flash point: N/A

Flammability: N/A

Auto flammability: N/A

Explosive properties: Dust explosion risk

Oxidizing properties: None

Vapour pressure: N/A

Density: 0.906 kg.l⁻¹ ± 100

Solubility - water: Dissipates in water

Solubility - solvent: N/A

Solubility - coefficient: N/A

Viscosity: N/A

10. STABILITY AND REACTIVITY

Conditions to avoid: Stable under normal usage conditions.

Incompatible materials: None.

Hazardous decomposition products: None known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: No known effect when used according to instructions.

Chronic toxicity: No known effect when used according to instructions

Carcinogenicity: No known effect when used according to instructions.

Mutagenicity: No known effect when used according to instructions.

Reproductive hazards: No known effect when used according to instructions.

12. ECOLOGICAL INFORMATION

Aquatic toxicity - fish: No known effect when used according to instructions.

Aquatic toxicity - daphnia: No known effect when used according to instructions.

Aquatic toxicity - algae: No known effect when used according to instructions.

Biodegradability: Biodegradable. Refer to table below.

Bioaccumulation: No data available. No known bio-accumulation.

Mobility: Not determined.

German wkg: nwg.



MATERIAL SAFETY DATA SHEET

Biodegradability of components (OECD 301 Guidelines)

Component	BIODEGRADABILITY
Calcium carbonate	Readily biodegradable
Montmorillonite clay	N/A. Naturally occurring in the environment.
Magnesium sulphate	N/A trace nutrient
Manganese sulphate	N/A trace nutrient
Iron sulphate	N/A trace nutrient

13. DISPOSAL CONSIDERATIONS

Disposal methods: Follow federal, state and local regulations for disposal of liquid waste.

Disposal packaging: Recycle plastic and paper based waste.

14. TRANSPORT INFORMATION

UN no: N/A

IMDG - EMS No: N/A

ADR/RID Substance identity no: N/A

IMDG - MFAG table on: N/A

ADR/RID class: N/A

IATA - class: N/A

ADR/RID item no: N/A

IATA - subsidiary risk(s): N/A

ADR/RID hazard identity no: N/A

UK - description: No data available

IMDG - shipping name: N/A

UK emergency action class: No data available

IMDG - class: N/A

UK classification: No data available

IMDG - packaging group: N/A

Tremcard No: N/A

IMDG - marine pollutant: N/A

15. REGULATORY INFORMATION:

EEC hazard classification: N/A

Risk phrases: as above

Safety phrases: as above

National Legislation: OSH Act

16. OTHER INFORMATION:

Selected bibliography

1. Data sheets as supplied by various Suppliers and Manufacturers
2. Occupational Health and Safety Act and Regulations (85/1993)
3. General Administrative Regulations

All reasonable care has been exercised in processing your request for information on the product listed in this Material Safety Data Sheet. No warranty is made, either express or implied and Baczyme does not hold itself liable for any injury, illness, loss or misinterpretation arising from the use of this data.

