

MATERIAL SAFETY DATA SHEET

Description: SAF EA PITZYME Revision Number: 01

Document Number: MSDS P025



Pit latrine Treatment

GENERAL

SAF- EA PITZYME is a blend of aerobic and anaerobic bacteria selected for their ability to degrade organic waste.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATIONS
Appearance		Light brown powder
Solubility		>80% in water
Aerobic bacteria		> 8 X 10 ⁸ / g
Anaerobic bacteria		> 5 X 10 ⁸ / g

PROPERTIES

- Rapidly degrades organic waste
- Easy and safe to use
- Contains no aflotoxins
- There is no antibiotic activity

APPLICATION

- Add 2 level caps full per week for the first 4 weeks per pit latrine.
- Continue with treatment by adding a lid full once a week.
- Increase the treatment to a lid full plus another half full lid every week.
- The product can be added directly or slurried in a bucket of water.
- Use slurried product when surface is dry, this will speed up activation.

CAUTION

Avoid using bleach or any products containing disinfectants. Cigarette butts must also not be thrown into the pit latrine as it will make the product ineffective.

THE RECOMMENDATIONS CONTAINED HERE-IN ARE BASED ON LABORATORY TESTS AND INFIELD EXPERIENCE AND ARE TO THE BEST OF OUR KNOWLEDGE ACCURATE. SINCE TERMS AND CONDITIONS OF ACTUAL USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS ARE MADE WITHOUT WARRANTY, EXPRESS OR IMPLIED.

Prepared by: Sabelo Dladla

Reviewed by: Zanele Mthimunye

Status: Issued

Approved by: Doug Cutter

Revision Date: 20 May 2013

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Company Details

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1. Product Identification

Trade Name	SAF- EA PITZYME	Product Code: P025
Chemical Family	Enzyme, microbe blend	
Chemical Name	Formulated product	
Product Use	Pit Latrine Treatment	
UN No:	3082	

2. Composition

CAS No.	Hazardous Components	Appro x %	OSHA PEL
7647-01-0	N/A	N/A	N/A

3. Hazards Identification

Main hazard	Irritant
Fire	Non flammable
Inhalation	Possible irritation
Skin contact	No effect wash thoroughly after skin contact
Eye contact	Irritating to eyes, avoid contact at all times.
Ingestion	Nausea

4. First Aid Measures

Inhalation	Move patient to fresh air, and allow some water.
Skin contact	Wash area well with water and soap.
Eye contact	Flush eyes with water for at least 15 minutes. Irrigate eyes thoroughly while lifting eyelids and rolling eyeballs. If discomfort persists, seek medical attention.
Ingestion	Rinse mouth with water, and allow patient as much water as possible. Consult doctor immediately.

5. Fire Fighting Measures

Extinguishing media	Product non-flammable. Use extinguishing agents suitable for surrounding area.
Special hazard	None known
Protective clothing	Approved self contained breathing apparatus should be utilised or equivalent equipment.

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6. Accidental Release Measures

Spills	Wash away with large amounts of water
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7. Handling & Storage

Handling	Handle product with care.
Storage	Store in a cool dry area. Keep containers sealed.

8. Exposure Controls/Personal Protection

General cleaning safety equipment is to be worn

9. Physical and Chemical Properties

Appearance	Light brown low dusting powder
Solubility (water)	> 80%

10. Stability and Reactivity

Stability	Stable under normal conditions of use and storage.
Incompatible materials	Keep away from oxidizing agents
Hazardous decomposition products	None known

11. Toxicological Information

Toxicity	Non toxic
Carcinogenicity	No evidence of carcinogenic properties.
Mutagenicity	No evidence of mutagenic effects.
Teratogenicity	No evidence of teratogenic effects

12. Ecological Information

Aquatic toxicity – rainbow trout	No negative effect
Aquatic toxicity - daphnia	No negative effect.
Aquatic toxicity - algae	No negative effect
Biodegradability	The product is biodegradable.
Bio accumulation	No possibility

13. Disposal Considerations

Disposal method	Wash away with water
Disposal of packaging	Recycle or provide to drum collectors or recovers.

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14. Transport Information

UN No:	3082
Substance identity no	P025
ADR/RID class	Class 9: Irritant
IMDG – packaging group	III
Marine Pollutant	No
IMO/IMDG Classification	Class 9 Irritant
IATA Classification	Class 9 Irritant

15. Regulatory Information

EEC-hazard classification	Irritant (Xi)
Risk phrases	R36
Safety phrases	S25

16. Other Information

References: SABS 0265: 1999, SABS 0228: 1995, SABS ISO 11014-1:1994, M.S.D.S (Suppliers of raw's)

Issued by: Sabelo Dladla

EMERGENCY NUMBERS: 011 406 4000 / 082 412 2298

The information in this MSDS is based on current knowledge and experience at the date of publication. This MSDS summarises our best knowledge of the health and safety hazard information of the product and is intended only as a guide to the appropriate precautionary handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification of the product. The data relates only to the specific product designated, and does not relate to use of the product in combination with any other material or use of the product in any process. The data is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability for fitness for a particular purpose is made with respect to the product, its composition, its safety or the information contained in this MSDS sheet.

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APPENDIX A

Revision Date (dd/mm/yy)	Issued By	Revision History		Revision No.
		Description	DCN No.	
20/04/2011	Technical Manager	New Issue	MSDS P025	00
20/05/2013	Technical Manager	Document review and change of Company logo.	MSDS P025	01

CONTROLLED DOCUMENT

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