

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 and ISO 11014-1

1. Product and Company identification

Brand name: PURESAN[®]

Product name: P Block

Use of Product: Sewerage Treatment and Odor Control

Company: Puresan (PTY) LTD
190 Hampton Court Drive, Chartwell, Randburg, 2055 South Africa

Emergency Telephone No: Phone+27(0) 829405826

2. Hazards Identification

Hazards description: Non-Hazardous

3. Composition / Information on Ingredients

Composition of a Bacillus Subtilis bacterial urinal block:

Name	CAS No.	EC No.	Content
Bacterial Spore Bacillus Subtilis	n.a	n.a.	< 80%
Binders, Nutrients and bio-degradable fragrance	n.a	n.a	<20%

4. First-aid measures

After inhalation: Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid, seek medical attention.

After skin contact: Drench the skin with plenty of water; use a mild soap if available.

After eye contact: Remove contact lenses. Rinse out with plenty of water with the eyelid held wide open. Seek medical attention if necessary.

After swallowing: Wash mouth out with water. Do not induce vomiting. If patient is conscious give water to drink. If patient feels unwell seek medical attention.

5. Fire-fighting measures

Suitable extinguishing media: Water

Unsuitable Extinguishers: None known

Hazardous Combustion Products: Large dust accumulations can be explosive, similar to a grain dust explosion.

Special protective equipment for firefighting: Self-contained breathing apparatus

6. Accidental release measures

Person-related precautionary measures:

Environmental-protection measures:

Procedures for cleaning / absorption:

Wear appropriate PPE – See section 8.

The bacteria and carriers are naturally occurring and should not pose an environmental risk.

If dry, vacuum or dry sweep piled material and place in closed plastic bags for disposal. If wet, place wet material in a drum or bucket lined with a plastic bag. The bag should not be tightly closed. Allow the bag to aerate for 24 hours before disposal. Disposal bag should be pin-holed near the top to avoid bursting if carbon dioxide or oxygen gas is evolved. Wash spill site with water. If bacterial contamination is an issue use suitable disinfectant to kill the bacillus subtilis.

7. Handling and storage

Handling:

Storage:

Suitable storage media:

Precautions against static discharge:

Good general ventilation; Avoid creating dust;

Store in a dry area

Original container with closed lid

Do not transfer material into flammable solvents.

Ground all equipment that handle solid or powdered product. Product surface alterations caused by calcining or mixing with additives may alter toxicological and chemical properties.

8. Exposure controls/personal protection

Exposure Limits: 8-hour time Weighted Average (TWA): 15 Minute Short Term Exposure Limit (STEL)

OHSA: 6 mg/m³ (total dust) TWA. 29 CFR 1910.1000 (Rev. 3/1/89).

ACGIH: 10 mg/m³ (total amorphous dust) TWA. 3 mg/m³ (respirable nuisance particulate) TWA.

Personal Protective Equipment Respiratory:

NIOSH approved dust filter respirator for exposure above permissible exposure limits.

Respiratory protection programs must be in accordance with 29 CFR 1910.134

Hand:

Wash hands after use. Gloves recommended.

Eye:

Safety glasses or goggles recommended.

Skin:

Wash after exposure. Boots, aprons, or chemical suits should be used when necessary to prevent skin contact. Personal protective clothing and use of equipment must be in accordance with 29 CFR 1910.132 (general requirements), .133 (eye and face protection, and .138 (hand protection).

Environmental controls:

Users should be aware of environmental considerations and their duties under the environmental protection act. Do not place the product into potable water.

Hygiene Measures:

Always wash thoroughly after handling.

9. Physical and chemical properties

Physical state:	Solid tablet
Colour:	Blue
Odour:	Fresh fragrance
Boiling point:	Not applicable
Melting point:	Not applicable
Flash point:	Not applicable
Specific Gravity:	Not applicable
Vapor pressure:	None
Vapor density:	Not soluble
Solubility in water:	Partially insoluble
Relative density:	1,3 g/ml at 25oC
Flash-point:	Not applicable
Evaporation rate:	Not applicable
pH:	8.0 (5% suspension)

10. Stability and reactivity

Stability:	Stable under normal storage and handling conditions. Keep away from moisture when storing.
Conditions/Materials to avoid:	Accumulation of product in enclosed spaces and generation of dust. High temperatures (>200°C) treatment or calcining. Avoid alteration of product properties before use. Calcining, which may result in gas formation, or mixing with additives may alter toxicological and chemical properties.
Hazardous decomposition products:	None known.

11. Toxicological information

Toxicological effects :Low Acute oral toxicity although ingestion will cause irritation of the gastrointestinal tract and may result in nausea and diarrhea. May cause mild mechanical irritation to eyes, skin and mucous membranes. May cause irritation from allergic reaction, especially to people that have a history of allergic reaction.

12. Ecological information

No quantitative data is available for the finished product as the individual components do not form a complex compound and are soluble and individually mobile both in the concentrate and in the dilutions as recommended for intended use.

Environmental Effects:	Not known
Bio accumulative potential:	Bacillus Subtilis is naturally occurring bacteria and therefore no bio-accumulative potential is expected.
Aquatic Toxicity:	Not known

13. Disposal considerations	
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Methods of disposal:	Disposal of as special waste in compliance with local and national regulations.
Contaminated packaging:	Empty containers should be taken for recycling, recovery or waste disposal in compliance with local and national regulations

14. Transport information

Not Subject to transport regulations.	
Land transport (ADR/RID):	<i>No special regulations apply</i>
Sea transport (IMDG):	<i>No special regulations apply</i>
Air transport (ICAO-IATA/DGR):	<i>No special regulations apply</i>
Tram card Number:	<i>Not applicable</i>

15. Regulatory information

Labelling EC:	
Symbols:	no
R-phrases:	8 – Contact with combustible material or solvents cause a fire.
S-phrases:	36/38 irritating to eyes and skin; 3 Keep in cool place; 17 Keep away from combustible materials especially solvents; 24/25 Avoid contact with skin and eyes; 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Hazardous Material Identification System (HMIS):	<i>Health (0-4): 1 Flammability (0-4): 1 Reactivity (0-4): 0 Personal Protection (A-D): N/A</i>
National Fire Protection Association (U.S.A.):	Health (0-4): 1 Flammability (0-4): 1 Reactivity (0-4): 0 Specific Hazard: N/A
Protective Equipment: (Non-toxic, non-caustic):	Gloves and protective eyewear recommended

16. Other information

Other Special Considerations: None Identified.

- This material must not be used for direct contact with food.
- Wash hands thoroughly after handling.
- Further details may be available upon request from your local distribution site.

The information in this safety data sheet is correct to the best of our knowledge, information and belief, at the date of publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release of bulk concentrate, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

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