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## 1. PRODUCT IDENTIFICATION

**PRODUCT NAME:** BioZym Porta Blue Powder

**INTENDED PRODUCT USE:** A blue powdered product for use in portable and rental toilets.

**COMPANY INFORMATION:**

<b>COMPANY NAME:</b> CLEAN & KIND (PTY) LTD	<b>ADDRESS:</b> 334 ANGUS CRESENT, NORTHLANDS BUSINESS PARK, NEW MARKET ROAD, NORTHRIDING, 2169
<b>EMAIL:</b> info@clean-kind.eco	<b>TELEPHONE:</b> 087 138 0007
<b>EMERGENCY CONTACT:</b> MARK FARRELL	<b>EMERGENCY CONTACT NUMBER:</b> 079 477 7143

## 2. COMPOSITION OF PRODUCT

According to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), this product should be not considered a controlled product; however, this SDS contains valuable information important to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users/handlers of this product.

CHEMICAL NAME	CAS NUMBER	CONCENTRATION (%)	SYMBOL	R-phase numbers
Sodium dodecyl benzene sulphonate	25155-30-0	1.0-10.0	Xi, Xn	R26, 36, 42
Sodium Sulphate	231-820-9	10.0-50.0	Xi	R20
Fragrance	Mixture	1.0-10.0	Xi, Xn	R11, R36/37/38/52
Bacillus consortium	Mixture	0.1-1.0	Xi	R20/22
Primary Blue No 1	3844-45-9	0.1-1.0	Xi	R22

## 3. HAZARD IDENTIFICATION

**GHS CLASSIFICATION OF THE MIXTURE** Skin Corrosion / Irritation - Category 2  
Eye Damage Irritation – Category 2

**FLAMMABILITY:** Not flammable


**CHEMICAL HAZARD:** None

**BIOLOGICAL HAZARD:** None

**HAZARD STATEMENT(S):** H316 Causes mild skin irritation



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H318 Causes serious eye damage

PICTOGRAMS:



PRECAUTIONARY STATEMENT(S):

P201 Obtain special instructions before use  
P202 Do not handle until all safety precautions have been read and understood.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 IF SWALLOWED: Call POISON Centre  
P305 IF IN EYES: Wash with copious amounts of water  
P310 Immediately call a POISON CENTER/doctor  
P312 Call a POISON CENTER/doctor/...if you feel unwell  
P313 Get medical advice/attention.  
P330 Rinse mouth.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/...if you feel unwell.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P501 Dispose of contents/container to approved Landfill

#### 4. FIRST-AID MEASURES

PRODUCT IN EYE:

Remove contact lenses or glasses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water. If symptoms develop and persist, seek medical attention.

PRODUCT ON SKIN:

Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. If symptoms develop and persist, seek medical attention.

PRODUCT INGESTED:


Do not give anything by mouth to an unconscious person. Do not induce vomiting, rinse mouth with large amount of water. If symptoms develop and persist, seek medical attention.

PRODUCT INHALED:

Remove patient to fresh air. If symptoms develop and persist, seek medical attention.



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## 5. FIRE-FIGHTING MEASURES

HAZARD IDENTIFICATION:	Non-Combustible / Non-Flammable
EXTINGUISHING MEDIA:	Water, foam, dry chemical or carbon dioxide extinguishers may be used.
FLAMMABLE LIMITS:	None
PROTECTIVE CLOTHING:	Firefighting crew to be equipped with full-face, self-contained breathing apparatus, rubber gloves, chemical resistant suits and boots. Thoroughly decontaminate all equipment following the conclusion of firefighting activities.

## 6. ACCIDENTAL RELEASE MEASURES


PERSONAL PRECAUTIONS:	Evacuate personnel from immediate vicinity. Wear appropriate protective clothing, overalls, rubber gloves and safety goggles.
ENVIRONMENTAL PRECAUTIONS:	The product is designed to digest complex fat matters, grease, oils, cellulose, proteins and starch through enzymatic metabolism in the drainage system. Small releases should not pose any hazard to the local environment.
METHODS FOR CLEANING UP:	Stop the leak or release at source. Contain liquid, when possible, to prevent further contamination of soil, surface water and ground water. Absorb spillages with a suitable inert material (e.g. sand or soil) or vacuum pump. Transfer the spillage to waste containers labelled in the same way as the original containers. Clean the spillage area with water.

## 7. HANDLING AND STORAGE

SUITABLE MATERIAL:	Do not store in unlabelled bottles, containers or tanks.
HANDLING:	Wear protective gloves, safety glasses and appropriate protective clothing. Observe good housekeeping practices. Keep workplace well ventilated.



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**STORAGE:**

Store in a cool, dry, well-ventilated area. Avoid freezing temperatures. Avoid temperatures above 45 °C to preserve biological stability. Keep container closed when not in use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**OCCUPATIONAL EXPOSURE LIMITS:**

None

**PERSONAL PROTECTION:**

The provision of personal protective equipment and the need to provide engineering control measures should be decided upon by the user as part of a formal exposure risk assessment. Based upon the available toxicological information the protective measures described below should be regarded as a minimum.

**RESPIRATORY PROTECTION:**

No special ventilation is usually necessary. However, if operating conditions create high airborne concentrations of this material, based upon available information and in the absence of occupational exposure limits the use of a half mask to a minimum standard of EN405 FFA1P1 is recommended.

**HAND PROTECTION:**

Gloves complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid prolonged exposure. Usage periods should not exceed the breakthrough times for the chemical stated by the manufacturer of the glove.

**EYE PROTECTION:**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.


**SKIN PROTECTION:**

Avoid skin prolonged contact. In case of prolonged/frequent direct handling of the material it is recommended to wear protective clothing as classified by Standard NF EN13034 (type 6).

**OTHER PROTECTION:**

Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Blue powder
ODOUR:	Fresh
pH:	6.5-7.5
VISCOSITY:	Powder
BOILING POINT:	N/A
MELTING POINT:	N/A
FLASH POINT:	N/A
FLAMMABILITY:	Not flammable
AUTOFLAMMABILITY:	Not applicable
EXPLOSIVE PROPERTIES:	Predicted not explosive based on chemical structure.
OXIDIZING PROPERTIES:	Not determined
DENSITY:	N/A
SOLUBILITY-WATER:	Soluble in water
SOLUBILITY-SOLVENT:	Not determined
SOLUBILITY-COEFFICIENT:	Not determined

## 10. STABILITY AND REACTIVITY


CONDITIONS TO AVOID:	Excessive temperature variations, < 0°C or > 45 °C
MATERIALS TO AVOID:	Not determined
HAZARDOUS DECOMPOSITION PRODUCTS:	This product is non-hazardous to the environment.

## 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	Acute toxicity (Oral) – Category 1
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SKIN AND EYE CONTACT:	Eye Damage Irritation – Category 2
CHRONIC TOXICITY:	Ingestion, LD50 Rat oral (mg/kg): Not determined.  Inhalation, LC50 Rat inhalation (mg/l/4h): Not determined.
CARCINOGENICITY:	Not listed as a carcinogen by NTP, OSHA or IARC.
MUTAGENICITY:	Not determined
REPRODUCTIVE HAZARDS:	No known significant effects or critical hazards.

The product is formulated using a range of micro-organisms specially selected from the natural environment and that are known to be non-pathogenic to humans, animals or plants. It is advised to cover open wounds when in use.

## 12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY:	Not toxic to the environment
BIODEGRADABILITY:	The product has various enzymes which will biodegrade rapidly. The preparation is expected to biodegrade rapidly. However, no information on anaerobic biodegradation is available.
BIO-ACCUMULATION:	Not anticipated to bioaccumulate due to high water solubility and hence, biomagnification is not likely.
MOBILITY:	Not determined
ECOTOXICITY:	The preparation is not anticipated to pose any environmental hazard. No data on toxicity specifically to soil organisms, plants and terrestrial animals are available
OTHER ADVERSE EFFECTS:	Not determined

## 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Not hazardous. Disposal should be in accordance with local regulations.
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**DISPOSAL OF PACKAGING:**

Drums may be cleaned, and disposal should be in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**INTERNATIONAL REGULATIONS LAND:**

Not applicable

**INLAND:**

Waterways: Not applicable

Air: Not applicable

Sea: Not applicable

**UN CLASSIFICATION NUMBER:**

None

**15. REGULATORY INFORMATION**

**EC REGULATIONS:**

The preparation is classified as irritant according to the criteria laid down in EU Council Directives 67/548/EC (Annex VI of Directive 2001/59/EC) and 1999/45/EEC.

**MICROBIAL CLASSIFICATION**

All the bacteria/enzymes contained in this formulation are of groups 1 according to Directive 2000/54/EC (on the protection of workers from risks related to exposure to biological agents at work). Microorganisms from group 1 are unlikely to cause a human disease.

When handling the product, precautions described in Annex VI of Directive 2000/54/EC must be taken into consideration to make a risk assessment.

**16. OTHER INFORMATION**

Further analysis of the product is being conducted continuously. The product contains ingredients that are 100% biodegradable and contains no petroleum-based chemicals. It is completely organic and therefore should have no negative effects on the environment and therefore termed as an "Environmentally Friendly" product.

**REGULATION (EC) N° 648/2004 (DETERGENT):**

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**PLEASE NOTE:**




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The information and recommendations provided in this Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the SDS was prepared. This information is offered solely for use in evaluation of this product in respect to safety, health and environmental hazards. The data on this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with other material or in any process.

No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable provincial and national laws.



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