

MATERIAL SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

M101 - RIM BLOCK

Product Use

BIOLOGICAL BASED DETERGENT BLOCK FOR TOILETS

Manufacturer's Name

Pineland Environmental Technology

Street Address

Unit B41

Pinelands Business Park

New Mill Road

Pinelands

Postal Code

7450

Emergency Telephone

082 924 5791

Date MSDS Prepared

01 MARCH 2013

MSDS Prepared By

DONAVIN HAWKER

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SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Substance identifier	Conc. %	Symbols	R phrase	CAS No.	EC No.
Sodium Sulphate	60%	None listed	None Listed	77-82-6	
Sodium dodecylbenzene sulphonate	< 20%	Xn	22, 36/37/38	25155-30-0	286-680-4
Bacillus Subtillus spores	<0.5%				

Ingredients not listed are either nonhazardous or under reportable conditions

Hazardous ingredients: None known

None of the compounds are considered carcinogens by the National Toxicological Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration nor are they known to be mutagenic

SECTION 3 — HAZARDS IDENTIFICATION

CAUTION	
Emergency Overview	
Contact may cause inhalation irritation	
Appearance Waxy blue	Physical State Solid
Odor Citrus	
Potential Health Effects	
Principal routes of exposure	Eye contact, skin contact, ingestion
Acute effects	
Eyes	May cause irritation
Skin	Possible allergic response in affected individuals to skin contact, or inhalation of dust from product.
Inhalation	May cause irritation of respiratory tract
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting & diarrhea
<p>MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Individuals with known allergies, particularly to feedstuffs as well as those individuals with chronic respiratory diseases or particular susceptibility thereto and those with asthmatic conditions should avoid contact with dusty conditions.</p>	

SECTION 4 — FIRST AID MEASURES

Skin Contact

In case of contact with skin, wash immediately with plenty of water

Eye Contact

In case of eye contact, rinse immediately with plenty of water & seek medical advice if irritation develops

Inhalation

Move to fresh air

Ingestion

Do not induce vomiting. Drink water to dilute. Seek medical advice

Organisms used are non-pathogenic, but may cause infection when in contact with open wounds.

Notes to physician

Treat symptomatically

SECTION 5 — FIRE FIGHTING MEASURES

Flammable Properties	Predicted not flammable
Suitable extinguishing media	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide
Unsuitable extinguishing media	None
Hazardous combustion products	Thermal decomposition products may release toxic and/or hazardous fumes and gases including nitrogen dioxides, carbon dioxides

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions	For personal protection, see section 8
Environmental precautions	Take up by mechanical means preferably by vacuum cleaner equipped with a high efficiency filter. Flush remainder carefully with plenty of water. Avoid splashing and high pressure washing (avoid formation of aerosols). Ensure sufficient ventilation. Wash contaminated clothing
Method for cleaning up	Spilled preparation should be removed immediately to avoid formation of dust from dried preparation. Take up by mechanical means preferably by vacuum cleaner equipped with a high efficiency filter. Flush remainder carefully with plenty of water. Avoid splashing and high pressure washing (avoid formation of aerosols). Ensure sufficient ventilation. Wash contaminated clothing

SECTION 7 — HANDLING AND STORAGE

Handling	Ensure adequate ventilation
General precautions	The substance should be handled under conditions of good industrial hygiene & in conformity with any local regulations in order to avoid unnecessary exposure
Storage	Keep tightly closed in a dry & cool place
Temperature	Keep in a cool, dry & well ventilated place
Storage conditions	In unbroken packaging – dry & protect from the sun. The product has been formulated for optimum stability. Extended storage or adverse conditions such as higher temperatures or higher humidity may lead to a higher dosage requirement
Conditions to avoid	Avoid temperatures above 25C to preserve biological stability. Avoid freezing temperatures. Strong acids or

alkali compounds may inactivate biological cultures. Avoid strong oxidizing agents.

Incompatible materials Strong acids or alkali compounds may inactivate biological cultures

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational exposure controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas
Maintain good conditions of industrial hygiene. Some processes may require enclosures, local exhaust ventilation or other engineering controls to control airborne levels. Additional handling and health/safety information is available on request.

Personal protective equipment

Respiratory Protection

In cases of insufficient ventilation wear suitable respiratory equipment that meets HEPA/P100 specifications.

Eye protection

Safety glasses with side-shields

Skin protection

Long sleeved clothing

Hand protection

Protective gloves

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practices

Environmental exposure controls

Local authorities should be advised if significant spills cannot be contained

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Waxy blue
Physical state	Solid
Odor	Citrus
pH	8 (at 1% solution @ 20°C)
Boiling point/Range	N/A
Melting point/Range	N/A
Flash point	N/A
Flammability (solid/gas)	No information available
Explosive properties	Not predicted to be explosive based on chemical structure
Oxidising properties	No information available
Vapor pressure	N/A
Relative density	N/A
Solubility in water	Soluble
Partial Coefficient (noctanol/water)	N/A

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Conditions to avoid	Stable under normal conditions Excessive temperature variations below 0C or above 25C.
Materials to avoid	None
Hazardous decomposition products	None
Possibility of Hazardous reactions	None

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingestion, LD50 Rat oral (mg/kg)	Not determined
Inhalation, LC50 Rat inhalation (mg/l/4hr)	Not determined
Skin, LD50 Rat dermal (mg/kg)	Not determined
Eye Irritation	Not determined

Chronic Toxicity

Sensitization	According to our experience and the information provided to us, the product does not have any harmful effects if used and handled as specified
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This product is formulated using a range of microorganisms specially selected from the natural environment

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity

This product is not expected to pose an environmental hazard. No toxicity data is available specifically for soil organisms, plants & terrestrial animals

Environmental Effects	The data available do not support any environmental hazard
Persistence/Degradability	The organic compounds of the product are biodegradable
Bioaccumulative effect	According to experience, not expected
Other adverse effects	No known effect

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste disposal method	Dispose of contents in accordance with local regulation
Contaminated packaging	Dispose of wastes in an approved waste disposal facility

SECTION 14 — TRANSPORT INFORMATION

Transport Regulations	Not dangerous goods
IMDG/IMO	Not regulated
RID	Not regulated
ADR	Not regulated
ICAO	Not regulated
IATA	Not regulated
DOT	Not regulated

SECTION 15 — REGULATORY INFORMATION

Microbial classification

All the bacteria contained in this formulation are of group 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 have to be taken into consideration in order to make a risk assessment.

Labelling according to Regulation (EC) n° 648/2004 (Detergent): to be declared

COMPONENT	QUANTITY (%)
anionic agent	15-30
Fragrance	
D-Limonene	
Citral	
Geraniol	
Citronellol	

SECTION 16 — OTHER INFORMATION

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information & belief at the date of publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text. Furthermore, as the conditions of use are beyond the control of Pineland Environmental Technology, it is the responsibility of the customer to determine the conditions of safe use of these products.

