

MATERIAL SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

M101 - 40 IN USE CONC.

Product Use

BIOLOGICAL CLEANING & SEPTIC TREATMENT

Manufacturer's Name

Pineland Environmental Technology

Street Address

Unit B41**Pinelands Business Park****Pinelands**

Postal Code

7700

Emergency Telephone

082 924 5791

Date MSDS Prepared

1 NOVEMBER 2013

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (<i>specific</i>)	%	CAS Number/Reach Reg no.	LD ₅₀ of Ingredient (<i>specify species and route</i>)	LC ₅₀ of Ingredient (<i>specify species</i>)
Water	> 85%	7732-18-5	N/A	N/A
Sodium alkylbenzene sulfonate	3 – 10%	68081-81-2	268-356-1	
Alcohols, ethoxylated (C9-C11)	1-5%	68439-46-3	N/A	
1,2-benzisothiazolin-3-one	<0.5%	263403305	220-120-9	N/A
Bacillus Subtilis Consortium of bacteria	<0.5%	N/A		

Ingredients not listed are either nonhazardous or under reportable conditions

SECTION 3 — HAZARDS IDENTIFICATION

CAUTION		
Emergency Overview		
Contact may cause eye & skin irritation		
Appearance Clear	Physical State Liquid	Odor Pleasantly fragranced
Potential Health Effects		
Principal routes of exposure Eye contact, skin contact, ingestion		
Acute effects		
Eyes	May cause irritation	
Skin	Substance may cause slight skin irritation	
Inhalation	May cause irritation of respiratory tract	
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting & diarrhea	

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 advise

Inhalation

Move to fresh air

Ingestion

Clean mouth with water & afterwards drink plenty of water

Notes to physician
Treat symptomatically

SECTION 5 — FIRE FIGHTING MEASURES

Flammable Properties	Not flammable
Suitable extinguishing media	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide
Unsuitable extinguishing media	None
Hazardous combustion products	None

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions	For personal protection, see section 8
Environmental precautions	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
Method for cleaning up	Avoid formation of dusts & aerosols 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 45C 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

<u>Occupational exposure controls</u> 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.
<u>Personal protective equipment</u> 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	Clear
Physical state	Liquid
Odor	Pleasantly fragranced
pH	7 - 8
Boiling point/Range	No information available
Melting point/Range	No information available
Flash point	No information available
Flammability (solid/gas)	No information available
Explosive properties	No information available
Oxidising properties	No information available
Vapor pressure	No information available
Relative density	No data available
Solubility	Fully soluble in water
Partial Coefficient (noctanol/water)	No information available

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 45C.
Materials to avoid	None
Hazardous decomposition products	None
Possibility of Hazardous reactions	None

SECTION 11 — TOXICOLOGICAL INFORMATION

<u>Acute Toxicity</u>	
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
<u>Chronic Toxicity</u>	
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

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 readily 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

International Inventories

TSCA	Does not comply
PICCS	Does not comply
KECL	Does not comply
ENCS	Does not comply
CHINA	Does not comply
AICS	Does not comply
DSL/NDSL	Does not comply

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.

