

# 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 <sub>50</sub> of Ingredient ( <i>specify species and route</i> )	LC <sub>50</sub> 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

<b>CAUTION</b>		
<b>Emergency Overview</b>		
Contact may cause eye & skin irritation		
<b>Appearance</b> Clear	<b>Physical State</b> Liquid	<b>Odor</b> 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

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

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	For personal protection, see section 8
<b>Environmental precautions</b>	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
<b>Method for cleaning up</b>	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

<b>Handling</b>	Ensure adequate ventilation
<b>General precautions</b>	The substance should be handled under conditions of good industrial hygiene & in conformity with any local regulations in order to avoid unnecessary exposure
<b>Storage</b>	Keep tightly closed in a dry & cool place
<b>Temperature</b>	Keep in a cool, dry & well ventilated place
<b>Storage conditions</b>	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
<b>Conditions to avoid</b>	Avoid temperatures above 45C to preserve biological stability. Avoid freezing temperatures. Strong acids or alkali compounds may inactivate biological cultures. Avoid strong oxidizing agents.
<b>Incompatible materials</b>	Strong acids or alkali compounds may inactivate biological cultures

## SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

<b><u>Occupational exposure controls</u></b> <b>Engineering Controls</b>	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.
<b><u>Personal protective equipment</u></b> <b>Respiratory Protection</b>	In cases of insufficient ventilation wear suitable respiratory equipment that meets HEPA/P100 specifications.
<b>Eye protection</b>	Safety glasses with side-shields
<b>Skin protection</b>	Long sleeved clothing

<b>Hand protection</b>	Protective gloves
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practices
<b>Environmental exposure controls</b>	Local authorities should be advised if significant spills cannot be contained

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

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

## SECTION 10 — STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under recommended storage conditions
<b>Conditions to avoid</b>	Stable under normal conditions Excessive temperature variations below 0C or above 45C.
<b>Materials to avoid</b>	None
<b>Hazardous decomposition products</b>	None
<b>Possibility of Hazardous reactions</b>	None

## SECTION 11 — TOXICOLOGICAL INFORMATION

<b><u>Acute Toxicity</u></b>	
<b>Ingestion, LD50 Rat oral (mg/kg)</b>	Not determined
<b>Inhalation, LC50 Rat inhalation (mg/l/4hr)</b>	Not determined
<b>Skin, LD50 Rat dermal (mg/kg)</b>	Not determined
<b>Eye Irritation</b>	Not determined
<b><u>Chronic Toxicity</u></b>	
<b>Sensitization</b>	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

<b>Environmental Effects</b>	The data available do not support any environmental hazard
<b>Persistence/Degradability</b>	The organic compounds of the product are readily biodegradable
<b>Bioaccumulative effect</b>	According to experience, not expected
<b>Other adverse effects</b>	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

<b>TSCA</b>	Does not comply
<b>PICCS</b>	Does not comply
<b>KECL</b>	Does not comply
<b>ENCS</b>	Does not comply
<b>CHINA</b>	Does not comply
<b>AICS</b>	Does not comply
<b>DSL/NDSL</b>	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.

