

# MATERIAL SAFETY DATA SHEET

Prepared: 01/01/08 Supersedes: 09/29/06

N.A.: Does Not Apply N.K.: Not Known

Section I - Product and Company Identification		
Manufacturer's Name:	One Biotechnology	
Address:	P.O. Box 758, Oneco, FL 34264	
Manufactured For:	NPD Products Ltd.	
	Midhurst, Ont. L0L 1X1	
Emergency Telephone Number:	705-734-0932	
Common Name:	Bacterial inoculant for wastewater and greasetraps.	
Trade Name:	BioPlus	
Microbial Formulation:	The product formulation consists of naturally occurring microorganisms.	

# Section II - Composition/Information on Hazardous Ingredients

**Basic Material** 

Contains no hazardous substances.

## Section III - Hazard Identification

Emergency Overview: Clear, blue liquid, earthy scent Potential health effects: <u>Acute eye</u>: Considered a slight eye irritant <u>Acute skin</u>: Not considered to be irritating to the skin <u>Acute ingestion</u>: Low order of toxicity. LD50 > 5,000 mg/Kg (oral, rat) <u>Acute inhalation</u>: Not an expected route of exposure

Chronic effects: None known.

# Section IV – First-Aid Measures

#### **Emergency First Aid Procedures:**

Eye Contact	Flush eyes with sterile water until irritation subsides or stops.
	Contact a physician.
Skin Contact	Wash with soap and water.
<b>Inhalation</b>	Although not an acute hazard as tested in rats, chronic effects are
	unknown. Upon prolonged or repeated respiratory exposure,
	contact a physician.
<u>Ingestion</u>	Low order of toxicity. Upon ingestion, induce vomiting and contact a physician.

# **Section V – Fire-Fighting Measures**

Flash Point (Method Used)	N.A.			
Flammable Limits	LEL	N.A.	UEL	N.A.
Extinguishing Media	N.A.			
Special Fire Fighting Procedures	None			
Unusual Fire and Explosion Hazard	N.A. in liquid	state		

#### Section VI – Accidental Release Measures

<u>Steps to be taken in case material</u> No Hazard. Wash away with plenty of water. <u>is released or spilled</u>

# Section VII – Handling and Storage

Store at room temperature. Protect from freezing.

## Section VIII - Exposure Controls/Personal Protection

General Precautions	Treat as you would any chemical or biological material.
	Wear protective water resistant gloves and safety glasses with
	side shields.

## <u>Special Precautions</u> This product is not intended for human or animal consumption.

# Section IX - Physical and Chemical Properties

Boiling Point (°F)	212 (760 mm Hg)(Approx.)
Specific Gravity	1.0 (Approx.)
Vapor Pressure (mm Hg)	24.00 (Approx.)
Percent Volatile by volume (%)	N.A.
Evaporation Rate	N.K.
Solubility in water	Soluble
Appearance and Odor	Blue color/earthy scent

## Section X – Stability and Reactivity Data

<u>Stability</u>	Stable
Incompatibility (Material to avoid)	N.K.
Hazardous Decomposition Products	This product does not undergo spontaneous decomposition.
	Typical combustion products are carbon, carbon dioxide,
	nitrogen and water.
Hazardous Polymerization	Will not occur.

## Section XI – Toxicological Information

#### Toxicology

## Acute Studies

\* Rat oral  $LD_{50}$  is greater than 5 g/Kg of body weight; as evidenced by no observed mortality after rats were dosed with 5 g/Kg at a concentration of 500 mg *BioPlus*/ml of water and a dose volume of 10 ml/Kg of body weight.

\* Rabbit dermal  $LD_{50}$  is greater than 2 g/Kg of body weight; as evidenced by no observed mortality after rabbits were exposed to test material applied to abraded and non-abraded occluded skin for 24 hours. No severe dermal effects were reported at the dose site.

\* Eye irritation in rabbits was reported as slight. Highest observed scores out of a possible score of 110 were:

1 hour: 12; 24 hours: 8; 48 hours: 4; 72 hours: 4; 4 days: 2; 7 days: 2; 10 days: 2; 14 days: 2.

\* Rat inhalation of the test material at an average analytical exposure concentration of 1.2 mg/1 of *BioPlus* (nominal concentration of 37 mg/l) for 6 hours produced no mortality.

#### Chronic Health Hazards

• Although chronic studies using *BioPlus* are not available, inhalation of this product should be prevented due to unknown long-term effects.

**Special Notes** Not for human and animal consumption.

## **Section XII – Ecological Information**

Acute aquatic toxicity LC50 Not toxic at 100% Fathead Minnows

#### **Section XIII – Disposal Considerations**

Waste Disposal Method

Use normal liquid waste methods in conformance with pertinent federal, state, and local regulations.

#### **Section XIV – Transportation Information**

<u>Proper Shipping Name</u>: Not Regulated <u>Special Information</u>: None

#### **Section XV - Regulatory Information**

Workplace classification: This product is considered non-hazardous under the OSHA Hazard Communication Standard <u>SARA Title 3</u>: None <u>TSCA Status</u>: Listed <u>RCRA classification</u>: Unknown <u>CERCLA reportable quantity</u>: None Listed

#### **Section XVI - Other Information**

Contact:

Technical Director One Biotechnology - BioPlus (941) 951-4246

#### **Notice**

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