

# BIOTRANS MSDS:2014

Revision 1

## BIOTRANS POLE SLEEVE MSDS

### MATERIAL AND SAFETY DATA SHEET



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### BIOTRANS POLE SLEEVE

#### 1 SUBSTANCE IDENTITY AND COMPANY CONTACT IDENTIFICATION

<b>Material:</b>	BIOTRANS POLE SLEEVE
<b>Appearance:</b>	Plastic sleeve
<b>Use:</b>	Applied to butts of wooden poles to prevent decay in soil.
<b>Company:</b>	Biotrans Africa CC 369 Queens Crescent Pretoria South Africa
<b>Telephone:</b>	Int + 27 (0)73 775 0310
<b>Website:</b>	<a href="http://www.biotrans-uk.com">www.biotrans-uk.com</a>

See Section 16 for emergency contact information.

#### 2 CHEMICAL COMPOSITION AND DATA ON COMPONENTS

The Biotrans Pole Sleeve is a sleeve composed of laminated plastic sheeting with inner layers of plastic tied to a barrier layer tied to outer layers of plastic.

##### **Composition**

- a) inner plastic layers:- polyolefins 99.5% of inner layer mass
- b) barrier layer:- aluminium 100% of barrier layer mass
- c) outer plastic layers:- polyolefins 99.9% of outer layer mass

#### 3 HAZARDS IDENTIFICATION

**The Biotrans Pole Sleeve is not a wood preservative.** It is a self-protected antifouling device that keeps preservative inside a sound pole, which in turn keeps pole and environment protected.

All components of the Biotrans Pole Sleeve are formed from chemically inert FDA-approved plastics (regulation 21 CFR 177.1330 for use in food contact) and the material does not fall into the group of materials described as hazardous.

**Accidental physical injury.** Packs of Biotrans Pole Sleeves are bulky and heavy, and Biotrans Pole Sleeves are used with utility poles therefore normal care must be taken when working around heavy packages and lifting equipment.

**Operational hazards.** None specifically.

#### **4 FIRST AID MEASURES**

Ingestion is not a normal route of exposure but if Biotrans Pole Sleeve material is swallowed seek medical attention. Material is harmless in normal usage.

##### **Accidental physical injury from falling packs of material**

Depending on the nature of the injury, the normal relevant first aid measures should be taken by appropriately qualified personnel.

#### **5 FIRE-FIGHTING MEASURES**

Autoignition temperature is approximately 350°C while melting occurs at 180 – 200°C. Therefore, during normal processing, storage and use, Biotrans Pole Sleeve material does not present a significant flammability hazard, but like most organic materials it will burn under suitable conditions and emit thick smoke and potentially toxic thermal degradation products. Carbon monoxide and aldehydes are believed to be the most hazardous fume components produced by incomplete combustion. Smoke should be considered toxic and should not be inhaled.

**Extinguishing agents.** Water spray, carbon dioxide, dry chemical alcohol type or universal type foams applied by manufacturer's recommended technique.

**Personal protective equipment for fire fighters.** Wear self-contained breathing apparatus and full protective gear.

**Special Precautions during fire fighting.** Apart from standing upwind to avoid breathing smoke, no special fire fighting precautions need to be taken.

#### **6 ACCIDENTAL RELEASE MEASURES**

**Spillage.** Spills of any process material are a safety hazard. Plastics are slippery when stepped upon therefore clean-up procedures include taking care to avoid falling, keeping workstations' floors uncluttered and lifting and repositioning fallen packs.

**Personal protective equipment.** Normal safety footwear and clothing should be worn at all times.

**Special procedures.** None.

## 7 **HANDLING AND STORAGE**

Follow instructions in this Code of Practice to ensure that all manoeuvres are performed properly. Ensure that any local requirements and legislation concerning protective clothing and work are observed.

Biotrans Pole Sleeve material is stable under normal ambient conditions therefore no specialised storage facilities are required. Packs of the material should be stored safely under cover. Ensure that packs are securely located and safely accessible to transporting equipment such as forklift trucks.

## 8 **EXPOSURE CONTROL AND PERSONAL PROTECTION**

No special attributes. Follow OSHA or ANSI or NIOSH guidelines.

## 9 **PHYSICAL AND CHEMICAL PROPERTIES**

State	solid
Appearance	plastic sleeve
Odour	negligible
Density	0.913 – 0.939 g/cm <sup>3</sup>
Autoignition point	350°C
Melting point	190°C
Volatiles by volume	0%
Solubility in water	insoluble

## 10 **STABILITY AND REACTIVITY**

Reactive polymerisation	will not occur
Explosive polymerisation	will not occur
Stability	stable
Flash point	not applicable
Vapour pressure	not applicable
Conditions to avoid	temperatures over 250°C
Materials to avoid	none

## 11 **TOXICOLOGICAL INFORMATION**

At ambient temperatures polyolefins and aluminium foil are very stable and consequently they are about as inert toxicologically as any man-made product. These components therefore comply with the Code of Federal Regulations, Title 21, Paragraph 177.1330, covering their use as food contact surfaces subject to the extractives limitations on the finished food article as described in the regulation, and have been used for more than 30 years as such.

No toxicological limits established for polyolefins mixtures and no acute effects of

overexposure are currently known. No ingredient of Biotrans Pole Sleeve material that is present at concentrations greater than 0.1% of the material is listed by OSHA, NTP or IARC as a suspect carcinogen.

## 12 **ECOLOGICAL INFORMATION**

No applicable data

## 13 **DISPOSAL CONSIDERATIONS**

Biotrans Pole Sleeve material is non-hazardous waste and presents no special problems. Under combustion conditions in draft incinerators the material is converted to carbon dioxide, water and trace elements. It can be transferred to facilities for recycling, or alternatively, it should be buried at approved sites according to all local, state and federal regulations applicable.

**Disposal on poles.** Poles with Biotrans Pole Sleeves fitted have increased value and can be recycled. Alternatively, such poles may be disposed of by the normal methods such as landfill or incineration.

## 14 **TRANSPORT INFORMATION**

Biotrans Pole Sleeve material is non-hazardous under Department of Transportation Regulations, 49 CFR Section 171.8, IATA, IMD and AFR 71 4. There are no applicable shipping regulations for this material therefore special labels are not required on the outside shipping container for the material and it may be shipped through the US Postal Services.

**Proper Shipping Name.** Plastic Sleeve.

## 15 **REGULATIONS**

No special regulations are applicable.

**United States.** All components of Biotrans Pole Sleeve material are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

**EEC and EINECS information.** Biotrans Pole Sleeve material satisfies all the requirements of the European Inventory of Existing Chemical Substances (EINECS).

**Indication of danger.** None

**Safety statement**

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection  
S45 In case of accident or if feeling unwell, seek medical advice immediately

## 16 OTHER INFORMATION

**Emergency telephone number** Int + 27 (0)73 775 0310

<b>Biotrans UK Ltd Hazard Rating</b>		<b>Scale</b>
Fire	1	4 = EXTREME
Toxicity	0	3 = HIGH
Reactivity	0	2 = MODERATE
Special	0	1 = SLIGHT
		0 = INSIGNIFICANT

ratings based on Biotrans Africa CC internal guidelines

The information contained herein relates to the specific material identified. Biotrans Africa CC believes that such information is accurate and reliable as of the date of this Material Safety Data Sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. Biotrans Africa CC urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.