

# EnviroBubble



## “Complete Protection”

Protecting your goods and protecting the Earth



Reduces  
Landfill  
Volume



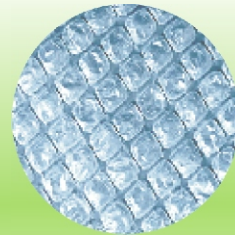
Reduces  
Plastic  
Pollution



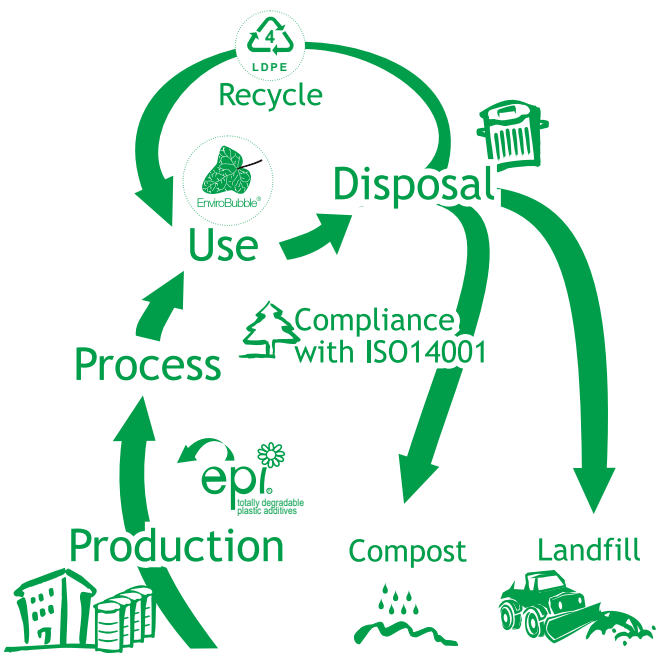
Reduces  
Greenhouse  
gas effects



Non  
Toxic  
Residues



Designed  
with a  
controlled  
lifetime





# EnviroBubble

## Why should your company be using Sancell EnviroBubble?

- **EnviroBubble is the 1st degradable Air Bubble Cushioning in the world.**
- **EnviroBubble was developed in conjunction with EPI an international company well known for its proven additives used worldwide.**
- **EnviroBubble range is the result of over 2 years of rigorous testing.**
- **Sancell has not compromised its quality in the development of the EnviroBubble range.**
- **Sancell guarantees a 1 year shelf life for EnviroBubble when stored as per storage instructions.**
- **EnviroBubble is proudly Australian manufactured.**
- **Many well know international companies are using EPI technology in their packaging materials such as**
  - **Tesco**
  - **Walmart**
  - **Australian Air Express**
  - **TNT**





# EnviroBubble

## 1. What is oxo-biodegradation of a plastic?

Oxo-biodegradation is a two-stage process in which, first the plastic is converted by reaction with oxygen to molecular fragments that are water wettable and second, these smaller oxidized molecules are biodegraded (converted into carbon dioxide, water and biomass, by microorganisms)

## 2. What products can be made degradable?

EPI's main focus is currently on single use plastics products that are used for a short period of time on a regular basis and then discarded.

## 3. How controllable are shelf life and service life?

TDPA additives are formulated in a range of formulations and incorporated at various let down ratios to accommodate a variety of shelf life/service lives and degradation rates.

## 4. Can TDPA-based plastics be recycled?

Yes. Recycling in-plant materials (trimmings, scrap, etc.) is entirely possible and is regularly practiced by EPI's licensees globally, also Recycling post-consumer degradables is entirely possible if they are based on TDPA<sup>®</sup> technology, and provided they have not already started to degrade.

## 6. What are the end products of degradation and how do they affect the environment?

Polyethylene (PE) containing TDPA additives has been tested extensively and confirmed to leave no harmful or toxic residues after oxidation and biodegradation.

## 7. What is the difference between EPI TDPA technology and Starch based Technology?

In specific PLA (Polylactic Acid) starch based technology, the plastic is derived from plant starch. Though this sounds reasonable it has implications including:

- a. Use of fossil fuels to produce the product
- b. Rapid release of CO<sub>2</sub> limiting humus production
- c. High costs compared to commodity PE,



# EnviroBubble Specification Sheet



Every combination of elements has a molecular weight. Water (H<sub>2</sub>O) has a gram molecular weight of 18 and Carbon dioxide (CO<sub>2</sub>) has a gram molecular weight of 44. An ordinary polyethylene film has an average molecular weight of up to 300,000. The remarkable flexibility, elongation and toughness of polyethylene film arises from the size of the molecules it is made from and their random space distribution.

Sancell's responsible labelling of all its products allow for easy identification and storage

instructions

Specific markets have been identified whereby tough plastic products are required to do specific jobs for a relatively short period of time, and then degrade/biodegrade in specific environments.

This must occur in ways that are entirely environmentally benign, causing no environmental damage or ill effects. Such plastics are called "controlled lifetime" materials.

With EPI's proprietary TDPA<sup>®</sup> technology, plastic products chemically degrade, within specific

# Sancell

PRODUCT CODE

X



LDPE

THIS IS RECYCLABLE

YES  A



DATE OF MANUFACTURE: \_\_\_\_\_

Storage instructions: Please store away from heat and sunlight. For Best results please use EnviroBubble within 12 months of manufacturing date.

PC02