



# Biodegradable SUPER 8<sup>®</sup> loosefill

Environmentally Friendly Packaging  
from FP International

## Biodegradable SUPER 8 loosefill is the right choice for the environment and for protecting your valuable products.

**Biodegradable SUPER 8 loosefill** is the next generation of sustainable packaging. From manufacturing to disposal, Biodegradable SUPER 8 is made to provide superior product protection while being environmentally friendly. Biodegradable SUPER 8 loosefill is the only biodegradable loosefill made from 100% recycled polystyrene that includes post-consumer polystyrene foam packaging that would otherwise end up in the waste stream. If not recycled, Biodegradable SUPER 8 loosefill will decompose completely within 9 to 60 months in the presence of microorganisms, whether it is sent to a landfill or ends up as litter in the soil.

**Biodegradable SUPER 8 loosefill** is also recyclable and can be reused many times. It is collected at over 1,500 locations in the US for reuse. It can be returned for recycling to locations listed in the Alliance of Foam Packaging Recyclers (AFPR) drop-off or mail-in program. See <http://www.epspackaging.org/info.html> for more information.

**Biodegradable SUPER 8 loosefill** comes in an easy to identify, light green color for customer awareness. Only green colored loosefill in the shape of a figure 8 is biodegradable.

## Biodegradable SUPER 8 loosefill is a better environmental choice than starch loosefill or paper.

### Benefits over starch loosefill

1. Made from 100% recycled polystyrene that is biodegradable
  - Starch loosefill uses crops which may increase food prices and decrease food supply
2. Biodegrades in 9-60 months in the presence of microorganisms
3. Takes 63% less energy to produce than starch loosefill

4. Emits 83% less greenhouse gas emissions than starch in its production
5. Can be recycled or reused
6. Has no attraction to rodents
7. Environmental humidity does not affect product performance
8. Superior interlocking secures the product and prevents it from shifting in the box
9. 64% lighter than starch loosefill to lower shipping costs

### Benefits over crumpled or padded paper

1. 86% less energy used in its production
2. Emits 93% less greenhouse gas emissions than paper, in its production
3. Will biodegrade in landfills in the presence of microorganisms, whereas paper will not degrade as readily, if at all
4. 64% lighter than paper to lower shipping costs
5. Easier for packers to use – gentler on their hands
6. No spare parts or machine maintenance connected with its use

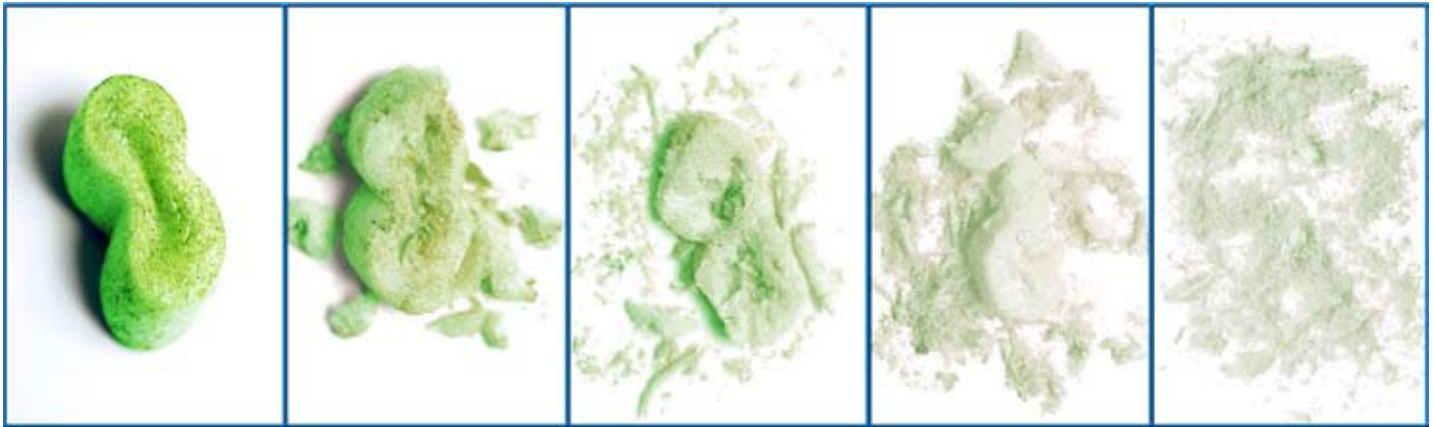
**Biodegradable SUPER 8 loosefill** meets the growing need for sustainable products while providing superior performance. Biodegradable SUPER 8 will protect your products better, increase your packers' efficiency and decrease your shipping costs. The unique figure 8 shape interlocks to securely hold your products in place during shipment resulting in less damage.

### Biodegradable SUPER 8 loosefill

- Better for the Environment
- Better for Your Business
- Better for Your Customers



**GREEN FAMILY**  
Environmentally Friendly Product



*60 month simulation of SUPER 8 loosefill biodegradation in a landfill.*

## Important Facts About Biodegradable SUPER 8 loosefill

### What makes the product biodegrade?

Our Biodegradable SUPER 8 loosefill is made from 100% recycled polystyrene that contains a proprietary additive, which will allow the product to degrade in the presence of microorganisms in 9 to 60 months. This additive does not affect the performance or the shelf life of our product, because biodegradation only occurs in the presence of microorganisms which are present in landfills, home and commercial composting, and other areas where they exist in nature. The products will biodegrade in aerobic (with air) and anaerobic (without air) conditions.

### What causes the product to biodegrade?

Our products contain an additive that promotes the formation of a microscopic bio-film on the surface of our SUPER 8 loosefill. Microorganisms in the bio-film secrete acids and enzymes that break down the long polymer chains into smaller pieces, which can then be digested by the microorganisms.

### How do we know the product will biodegrade?

The additive used in Biodegradable SUPER 8 loosefill has been tested by independent laboratories in accordance with standard test methods approved by ASTM, and other standardization bodies, and has been approved for marketing as biodegradable and safe for the environment. This product does not meet ASTM D6400-04, which is specifically for labeling of plastics designed to be composted in municipal and industrial aerobic composting facilities.

### What is left when the product biodegrades?

After biodegradation, the resulting material has been transformed into carbon dioxide, water and inert-humus soil with no heavy metals or harmful chemicals.

### Does the additive impact the product's characteristics?

This additive does not affect the recyclability of the product nor the product's performance as an excellent, light weight, protective packaging material.

### Is there any special handling for this product?

No special handling is required to load, use or store the material.

### From a packer's standpoint, are there any safety issues with handling?

No, the additive is made only from FDA recognized materials and is not known to contain hazardous materials, as outlined by current OSHA regulations.

### Will the additive transfer to other products?

No, the additive must be mixed with the raw materials during the production of the finished packaging material and becomes a non-transferable part of the product.

### Environmental Commitment

FP International has a substantial record of environmental achievements. In 1990, FP International was the first company to recycle post-consumer polystyrene foam packaging and use the recycled material to make new loosefill from 100% recycled material. FP International received national recognition in 1991, for its "significant contributions to environmental improvement through recycling" with the Administrator's Award of the US Environmental Protection Agency, and also received numerous state and local awards for environmental commitment and recycling programs. In 2007, the company recycled in excess of 10 million pounds of expanded polystyrene worldwide.



**INVENTING THE FUTURE OF PACKAGING**

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