

We have shortened the life of plastic to lengthen life on earth

# ChorusHome

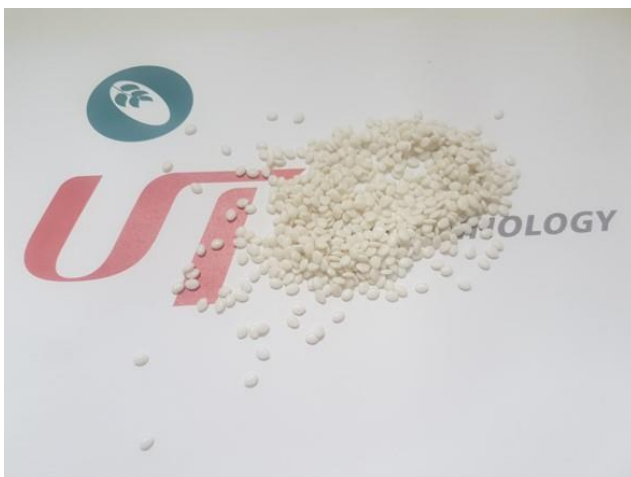
Biodegradable Additive Technology

In partnership with

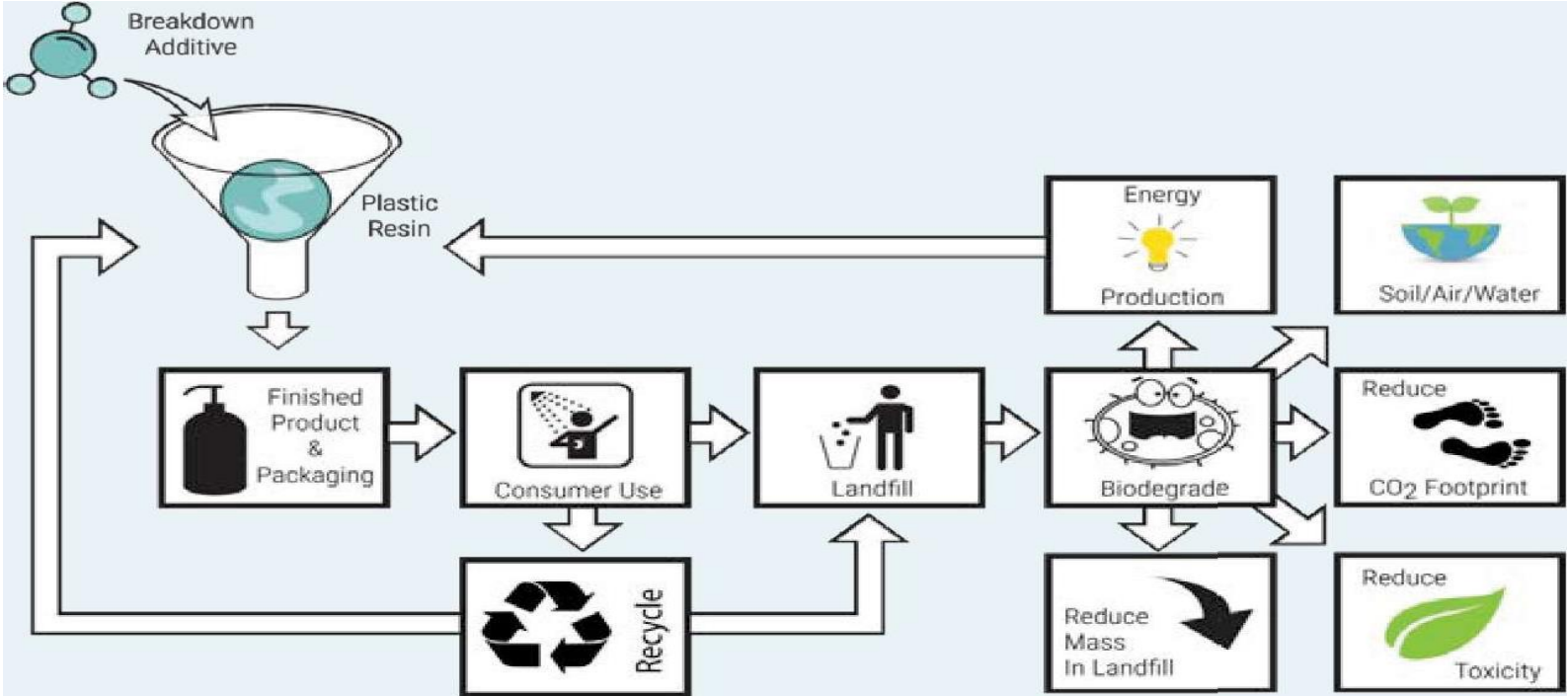


## What is biodegradable additive technology?

- BAT is an organic additive that is introduced to the manufacturing process that accelerates the biodegradation of plastic in an anaerobic, biologically active landfill.
- BAT is used with a resin feeder at the throat of the manufacturing screw. These devices allow for a specific amount of resin to be added in with the base resin just as it enters the manufacturing machine.
- BAT is added at a 1% ratio by load rate.
- BAT can be used with EVA, EVOH, HDPE, LDPE, LLDPE, Nylons, PET, PETG, Polycarbonate and PP.
- BAT is FDA/EU compliant and safe for food contact, EINECS, REACH, CFIA compliant. Products with BAT are recyclable.



BAT Additive comes in pellet form



**How does it work?1**

- BAT causes plastic to biodegrade through a series of chemical and biological processes, in anaerobic conditions. This process is called bio-assimilation.
- BAT allows the formation of a biofilm which is made up of micro-organisms which penetrate the plastic. This biofilm only forms in the absence of oxygen ie: landfill
- BAT helps expand the molecular structure making room for the microbes that send out chemical signals that attract other microbes, collectively feasting on the polymer chains.
- BAT has now aided in the breaking down of the chemical bonds, resulting in enhanced biodegradation rates compared to traditional plastics.
- Bat leaves behind only biogas and humus (Organic Matter). This is the same biological process as organic matter and the remnants are the same as well.

**My notes to Unitechnology**

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