



For General Trading & Cosmetics LTD.

# Paynaz Company®

Paynaz Company Integrate with Nature



all of our products  
biodegradable and eco-friendly

We strive to keep the planet green



Corn  
We use 100%  
renewable resources

we strive to keep  
the planet green



Our product



made with low pp



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**Paynaz Company**<sup>®</sup>

**Paynaz Company Integrate with Nature**

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Paynaz Company is a general trading and Cosmetics Company. The company was established in 2011. Paynaz Company has young and experienced employees in the field. Our company has a variety of high quality products. Our priority is to maintain and provide our customers the finest and the best product and services.

Packaging waste forms a significant part of municipal solid waste and has caused increasing environmental concerns. Among other materials, a wide range of oil-based polymers is currently used in packaging applications. These are all non-biodegradable, and some are difficult to recycle or reuse due to being complex composites having varying levels of contamination.

The company has a new project that is eco-friendly. The project is to produce starch-based biodegradable plastic and disposable bags including plates, spoons, glass...etc. These products are mostly composed of natural and organic materials that will be decomposed more quickly into useful soil amendment products. These bio products preserve the environment and maintain the human health. Moreover, the project is aiming to stop cutting down trees and use tree crops to minimize deforestations.

Biodegradable materials are materials that are capable of being decomposed by bacteria or other living organisms and thereby avoiding pollution. Biodegradable plastics are made from renewable resources, like biodegradable corn starch, potato and soya bean.

Utilize of the bio-based materials has several potential benefits for greenhouse gas balances and other environmental impacts and in the use of renewable, rather than finite resources. It is intended that use of biodegradable materials will contribute to sustainability and reduction in the environmental impact associated with disposal of oil-based polymers.

Conventional plastic bag is made from petroleum products. The production of petroleum-based plastics involves all kinds of chemicals, some of which have raised health concerns among consumers. The other problem is that these types of plastics do

not biodegrade and they are made with non-renewable resources as petroleum and require many years decomposing.

Nowadays, plastics technology has come a long way. There are now biodegradable plastics made from renewable resources, such as biodegradable corn, soy or potato.

It is worth mentioning that there are other types of biodegradable bags but are less eco-friendly and need longer time, heat, moisture, aeration and water to decompose. Those types are made from HDPE (High Density Polyethylene) and they are mixed up with chemical substances to make the breaking down process faster. However, for these types of bags degradation begins with a chemical process (oxidation or hydrolysis) followed by a biological process. Both types emit CO<sub>2</sub> as they degrade but hydro-biodegradable can also emit methane.

Generally speaking, our project aims to bring eco-friendly products in order to save the environment, make our world greener and save the next generation from pollution. The main benefits of the project are as following:

1. No toxic chemicals associated with conventional plastic (such as polyvinyl chloride or dioxin).
2. Can be disposed in your home compost pile.
3. Eco-friendly (made from a renewable resource and less wasteful).
4. Durable.
5. Especially well-suited for cold applications, such as in the freezer since conventional plastic products tend to leach into food when frozen.
6. No chemical reactions when subjected to heat.
7. The duration for decomposition is 8-12 months.

8. Bioplastic polymers have great potential to contribute to material recovery, reduction of landfill and use of renewable resources.
9. It is cheaper compared to other European's biodegradable products.

### **Biodegradable Items made from corn starch and Polypropylene (PP) or Low-density polyethylene (LDPE):**

1. Bags (there are different shapes such as 'D' Cut Carry Bags, 'U' Cut Carry Bags, Loop Handle Carry Bag, Carry Bag with Gusset and 'D' Cut Carrier Bag)
2. Flatware/cutlery
3. Bowls
4. Straws
5. Cups (hot and cold)
6. Water bottles
7. Trays
8. Lids
9. Food storage containers (including "clamshell" containers used by take-out restaurants)
10. Plates

## Material Safety Data Sheet (MSDS)

### **Composition and Information on Ingredients:**

Name	CAS#	% by weight
Thermoplastic starch	-	70-40
LDPE	9002-88-4	20-40
Compatibilizer	-	5
Natural base oils	-	3
Other additives	-	2

### **Hazards Identification:**

Light yellow, Used for blowing films, 100% biodegradable.

### **Potential Acute Health Effects:**

- Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Non-hazardous in case of ingestion. May burn at or above the flashpoint, and airborne dust
- May explode if ignited. Toxic gases will form upon combustion.

### **Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.