



**UNIGOLDEN**

Sustainable Ingredients for Personal Care

**Upcycled Ingredients:**

**New life, new use in cosmetic products**



2023/05

By **Hannah Brown** with EBU & AFP • Updated: 13/06/2022

The airline industry creates an enormous amount of waste, here are some of the creative ways it's being recycled.

## Transforming an aeroplane into keyrings

German company Aviation tags takes the outer shell of old aeroplanes and chops them up into keyrings.

## Transforming uniforms into handbags

Japanese airline All Nippon Airways (ANA) has produced a range of bags made from old staff uniforms.

## Sustainable chocolate: Upcycling cacaofruit, combating waste and leveraging fermentation for Easter eggs

05 Apr 2023 --- As Easter approaches, sustainability in the chocolate and cocoa supply chain comes into heightened focus. **FoodIngredientsFirst** looks at a range of projects and innovations, including how WNW Food Labs is looking to entirely subtract the cacao ingredient from the chocolate equation with what it claims is the world's first cocoa-free chocolate Easter egg, developed by its in-house chocolatier.



Food Waste: Investment in Upcycled Food Gaining Steam - The Food Institute



Upcycled Food Products Market revenue, business growth and demand by 2031



# HERBOREX RECYCLING & UPCYCLING UNIGOLDEN

## Recycling

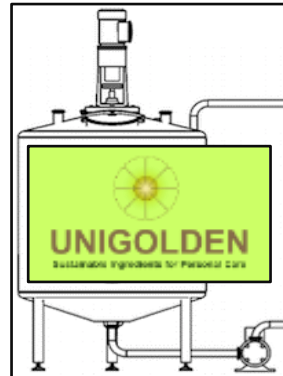
### Certified Organic Farming



### Certified Plant Suppliers



Waste Composting



Certified Plant Extraction

- Dried plants are supplied to **UNIGOLDEN** by certified organic agriculture operators.
- Due to the seasonality, origin can vary.
- Plant extraction is done at the Unigolden facility audited by Cosmos/Ecocert.
- Extraction wastes are collected and sent for composting and use as fertilizer to an organic farm located in DO Penedés (Barcelona).
- Plants grown in this farm will be used by **UNIGOLDEN** to produce new plant extracts.

HERBOREX BIO – HERBOIL BIO  
COSMETIC PLANT EXTRACTS





# HERBOREX RECYCLING & UPCYCLING UNIGOLDEN

## Upcycling (1)

Certified Organic Farming



Production of Vegetable Oils



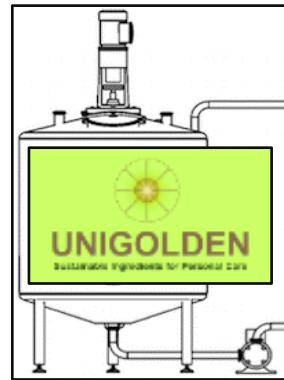
Waste



- Wastes (Cakes) from the production of several vegetable oils are currently used by **UNIGOLDEN** as starting raw materials to produce plant extracts for cosmetic application.
- The process means transforming a waste into a new product of higher quality, ecological and economical added values.



Waste Composting



Upcycling Process



**UPCYCLED**  
HERBOREX ALMOND WP BIO  
HERBOREX ARGAN WG BIO  
HERBOREX ARGAN MILK WGP BIO



# HERBOREX RECYCLING & UPCYCLING UNIGOLDEN



## Upcycling (2)

Farming



Grains Processing



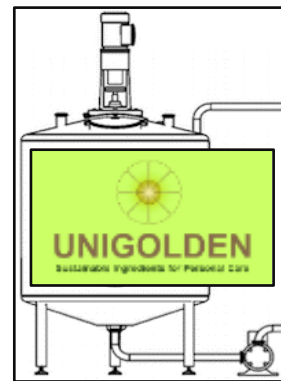
Hull



- Waste materials from agri-food industry is collected and selected by **UNIGOLDEN** for the production extracts for cosmetic application.
- The process means transforming a waste into a new product of higher quality, ecological and economical added values.



Waste Composting



Upcycling Process

**UPCYCLED**  
HERBOREX RICE HULL WPU  
HERBOREX OAT STRAW WPU



# HERBOREX RECYCLING & UPCYCLING UNIGOLDEN

## Upcycling (3)

Farming



Processing and selection



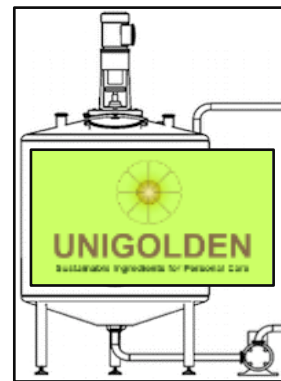
Discarded



- Material discarded from the regular food circuit, through a cooperation agreement with agri-food operators, is collected and selected by **UNIGOLDEN** to produce extracts for cosmetic application.
- The process means transforming a waste into a new product of higher quality, ecological and economical added values.



Waste Composting



Upcycling Process

**UPCYCLED**  
**HERBOREX WGU**  
**(FRUITS & VEGETABLES)**







## Current Upcycled Plant Extract Range

- **HERBOREX AGUACATE WGU** (INCI: Aqua (Water), Glycerin, Persea Gratissima (Avocado) Fruit Extract)
- **HERBOREX ALCACHOFA WGU** (INCI: Aqua, Glycerin, Cynara Scolymus (Artichoke) Bud Extract)
- **HERBOREX ALMENDRA WG BIO** (INCI: Aqua (Water), Pentylene Glycol, Prunus Amygdalus Dulcis (Sweet Almond) Seed Extract)
- **HERBOREX ARÁNDANO AZUL WGU** (INCI: Glycerin, Aqua (Water), Vaccinium Corymbosum Fruit Extract)
- **HERBOREX ARGAN WG BIO** (INCI: Water (Aqua), Glycerin, Argania Spinosa Kernel Extract)
- **HERBOREX CASCARILLA DE ARROZ WPU** (INCI: Aqua (Water), Pentylene Glycol, Oryza Sativa (Rice) Hull Extract)
- **HERBOREX AVENA STRAW WPU** (INCI: Aqua (Water), Pentylene Glycol, Avena Sativa (Oat) Straw Extract)
- **HERBOREX CASCARILLA DE CACAO WPU** (INCI: Aqua (Water), Pentylene Glycol, Theobroma Cacao Husk Extract)
- **HERBOREX HIGO WPU** (INCI: Glycerin, Aqua (Water), Ficus Carica (Fig) Fruit Extract)
- **HERBOREX MANDARINA WGU** (INCI: Aqua (Water), Glycerin, Citrus Nobilis (Mandarin Orange) Fruit Extract)
- **HERBOREX MANZANA WGU** (INCI: Glycerin, Aqua (Water), Pyrus Malus (Apple) Fruit Extract)
- **HERBOREX MELOCOTÓN WGU** (INCI: Glycerin, Aqua (Water), Prunus Persica (Peach) Fruit Extract)
- **HERBOREX NARANJA WGU** (INCI: Glycerin, Aqua (Water), Citrus Aurantium Dulcis (Orange) Fruit Extract)
- **HERBOREX CÁSCARA DE NUEZ WGU** (INCI: Aqua (Water), Glycerin, Juglans Regia Shell Extract)
- **HERBOREX PEPINO WGU** (INCI: Aqua (Water), Glycerin, Cucumis Sativus (Cucumber) Fruit Extract)
- **HERBOREX ALOE VERA WGU** (INCI: Aqua (Water), Glycerin, Aloe Barbadensis Leaf Extract)
- **HERBOREX CAVIAR LIME WGU** (INCI: Glycerin, Aqua (Water), Microcitrus Australasica Fruit Extract)
- **HERBOREX PAPAYA CAVIAR WGU** (INCI: Glycerin, Aqua (Water), Carica Papaya (Papaya) Seed Extract)





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