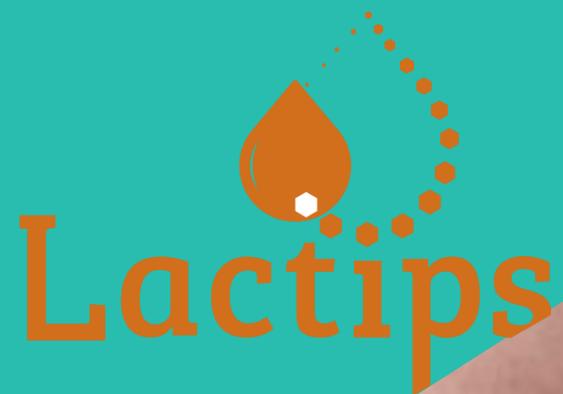




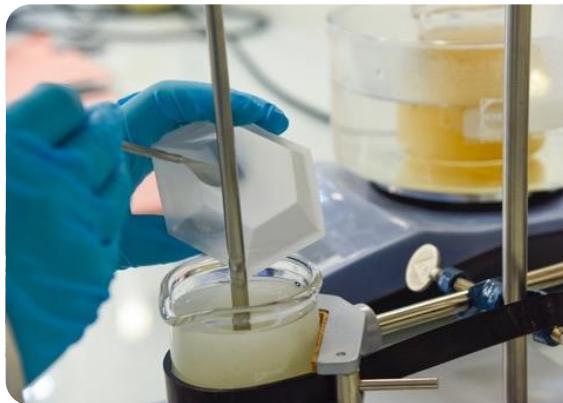
05 mars 2019



Rosemonde  
MAILLET

R&D Manager

# LACTIPS: A 100 % BIO-BASED RAW MATERIAL



Lactips

# WHO IS LACTIPS?

Created in **2014**

Based on a **patent** of university



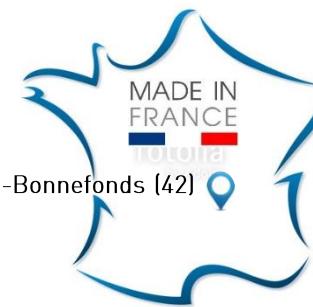
Fund raising in  
**2018**

3.7  
M€

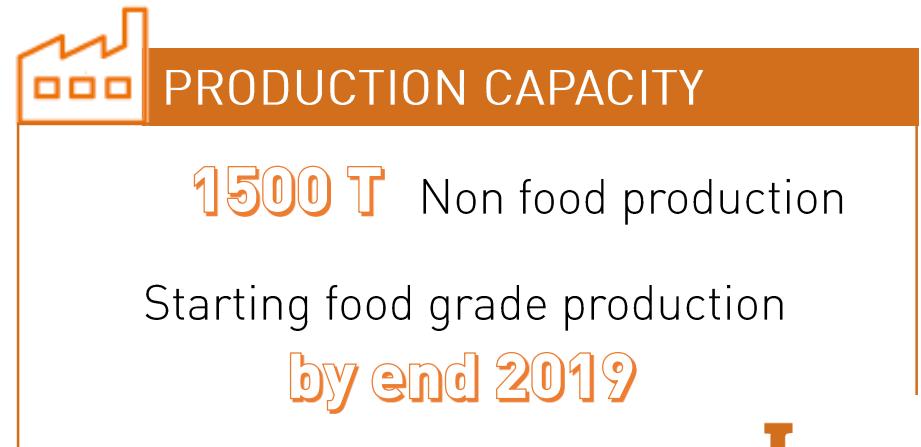
Fund raising in  
**2015**

1.2  
M€

BASF joined  
the adventure



**38**  
people



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 766603

**Lactips**

# OUR PROPERTIES



**100% BIO-BASED**  
Use of milk protein



**Biodegradable**  
**Home Compostable**



**GAS BARRIER**  
 $O_2$



**WATER SOLUBLE**  
< to 5 minute at 20°C  
No residues after dissolution



**INDUSTRIALIZED**  
Convertible on all the plastic  
industry processes



**PRINTABLE**  
Without previous  
treatment

Lactips

# OUR PROPERTIES



**100% BIO-BASED**  
Use of milk protein

**Norm : ISO 16620-2:2015**  
100% bio-based carbon



vs plastic



**BIODEGRADABLE**  
HOME COMPOSTABLE



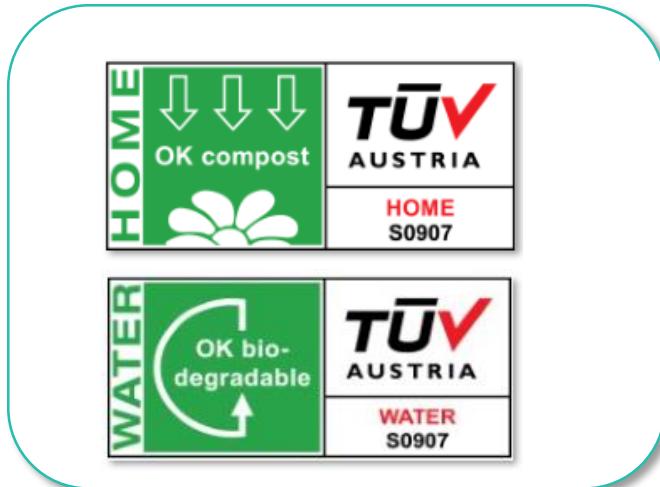
**WATER SOLUBLE**  
< to 5 minute at 20°C  
No residues after dissolution



**PRINTABLE**  
Without previous treatment

**Lactips**

# OUR PROPERTIES



**BIODEGRADABLE  
HOME COMPOSTABLE**



**WATER SOLUBLE**  
< to 5 minute at 20°C  
No residues after dissolution



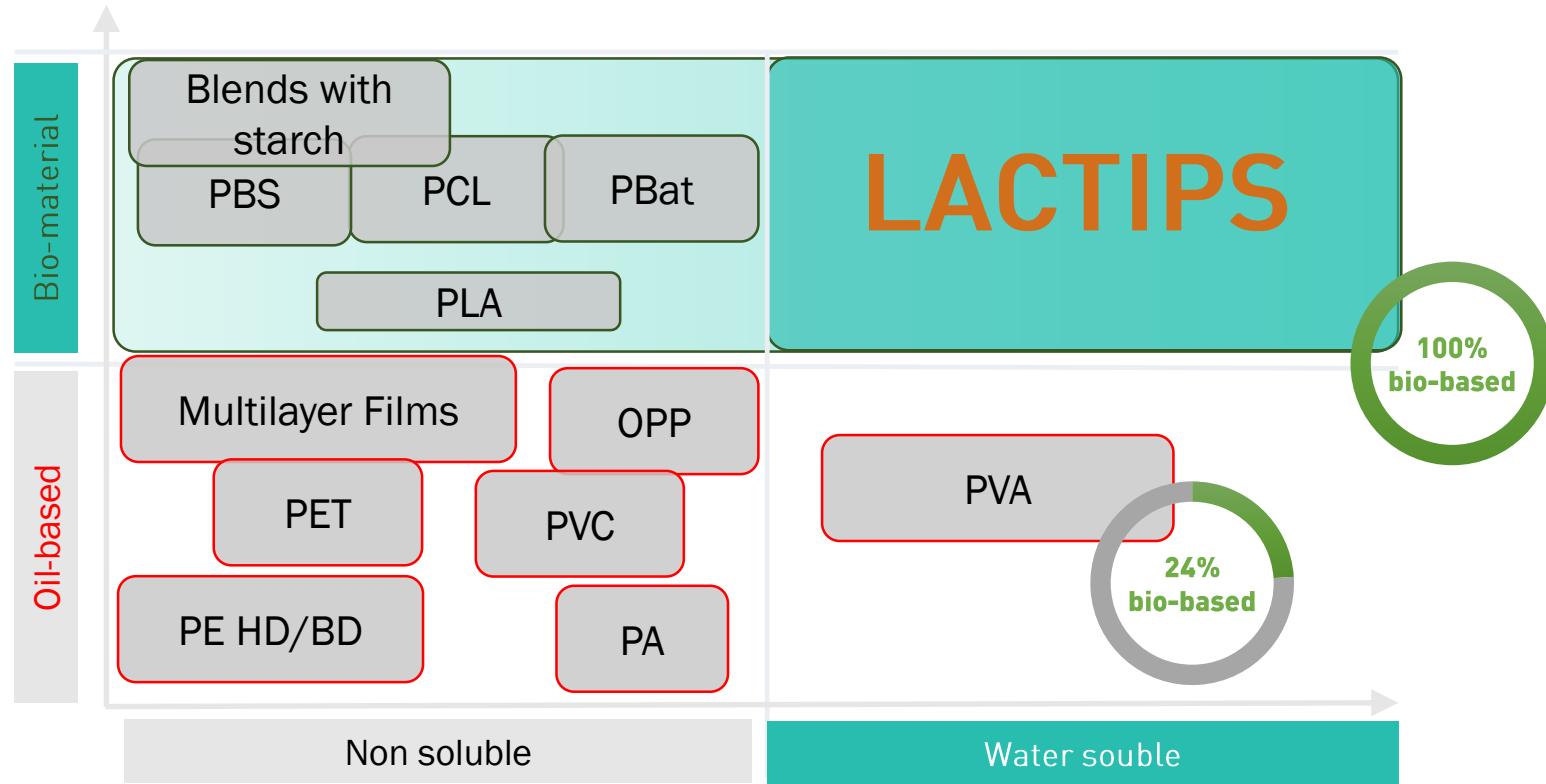
**INDUSTRIALIZED**  
Convertible on all the plastic  
industry processes



**PRINTABLE**  
Without previous  
treatment

**Lactips**

# THE UNIQUE 100% BIO-BASED WATER SOLUBLE RAW MATERIAL OF THE WOLRD



**Lactips**

# CONSUMER TRENDS



Lactips

# POSSIBLE UPCOMING REGULATIONS

01

BAN OF  
SINGLE USE PLASTICS



02

BAN OF  
MICRO PLASTICS



03

ESTABLISHING CRITERIA TO  
DEFINE THE RELEVANT USE OF  
BIODEGRADABLE PLASTICS  
AND THEIR BIODEGRADATION  
CONDITIONS



Lactips

# OUR KNOW-HOW

YOUR  
IMAGINATION  
IS THE ONLY  
LIMIT !

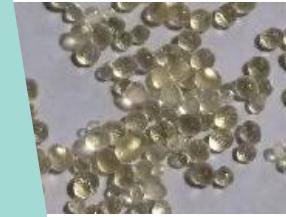
## MILK PROTEIN



## LACTIPS



## PROCESSES



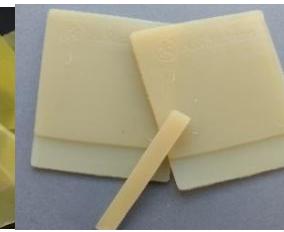
Micro-beads



Film



Thermoforming



Injection

## MARKETS



Detergency & Chemicals

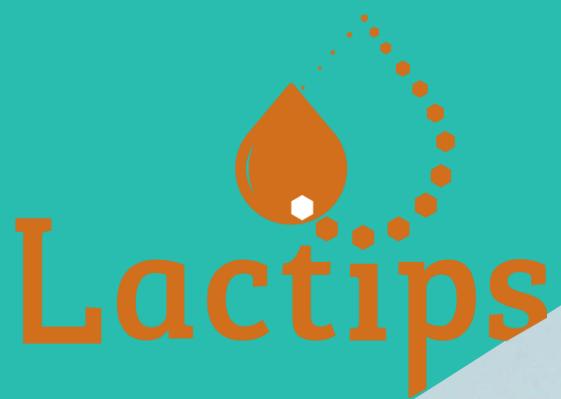


Personal care & Cosmetic



Agri-food

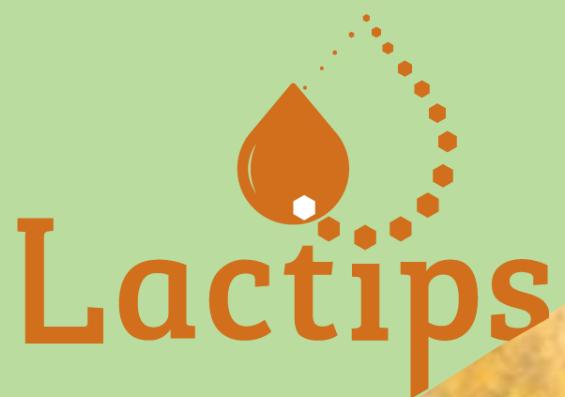
**Lactips**



## DETERGENT WRAPPING



THE MOST  
PERFORMANT  
WRAPPING IN  
DISSOLUTION FOR  
DETERGENT  
UNIDOSES



AGRI-FOOD



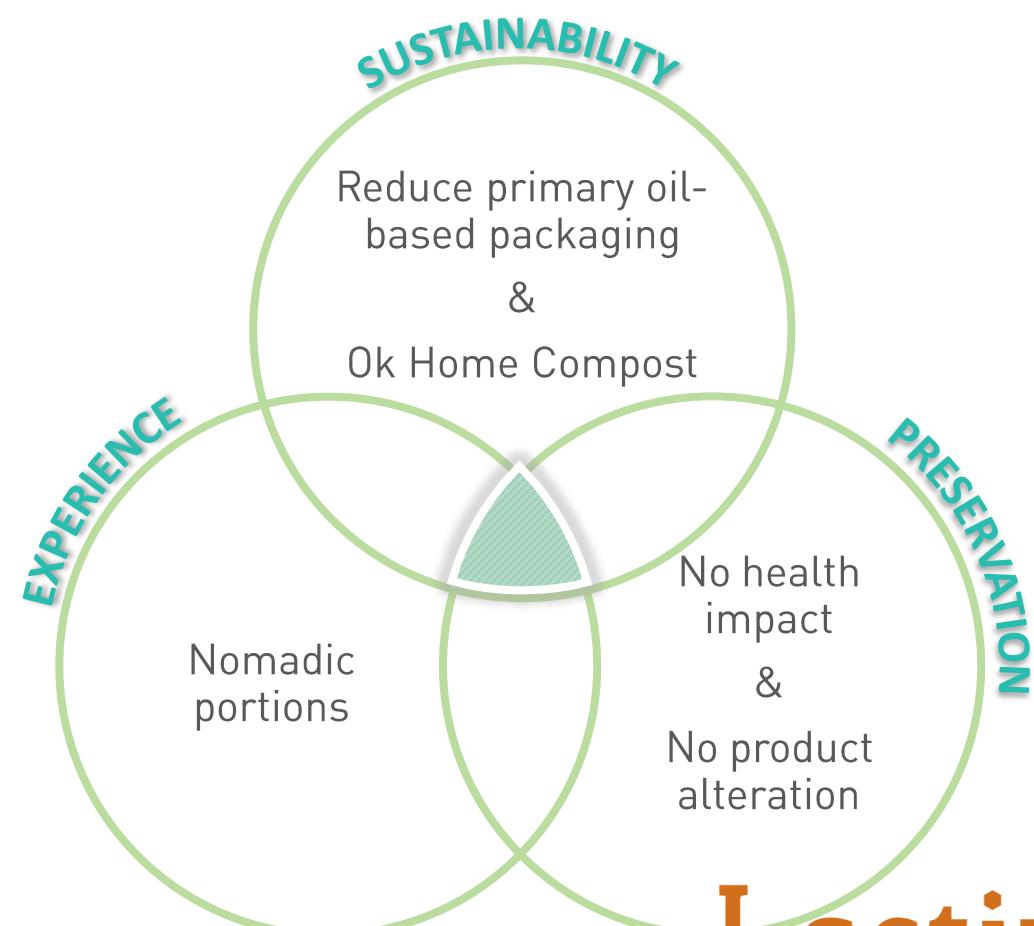
AN INNOVATIVE  
AND  
SUSTAINABLE  
SOLUTION FOR  
FOOD WRAPPING

# FOOD APPLICATIONS

## BIODEGRADABLE PACKAGING



**FOOD CONTACT**  
Dry and fat food



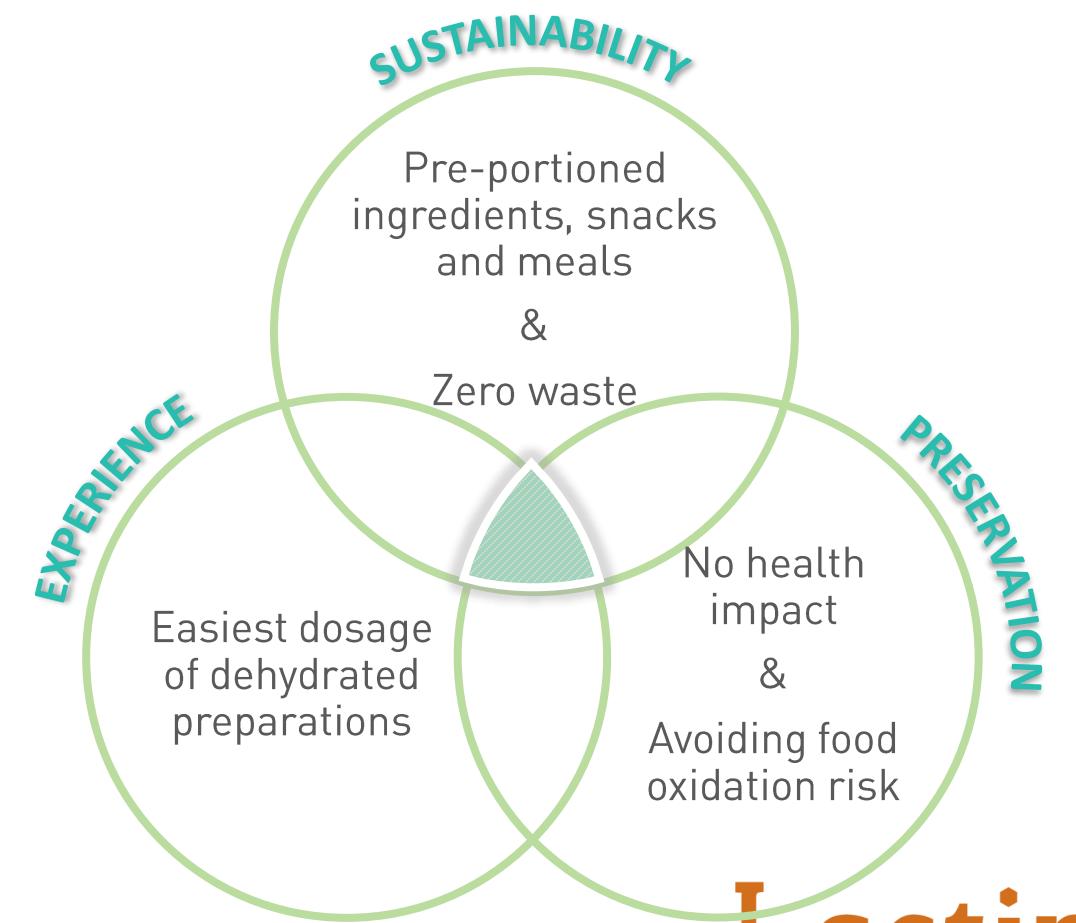
**Lactips**

# FOOD APPLICATIONS

UNIDOSSES FOR INGREDIENTS  
AND DEHYDRATED PREPARATION



**EDIBLE**  
100 % food ingredients



**Lactips**



## PERSONAL CARE AND COSMETICS

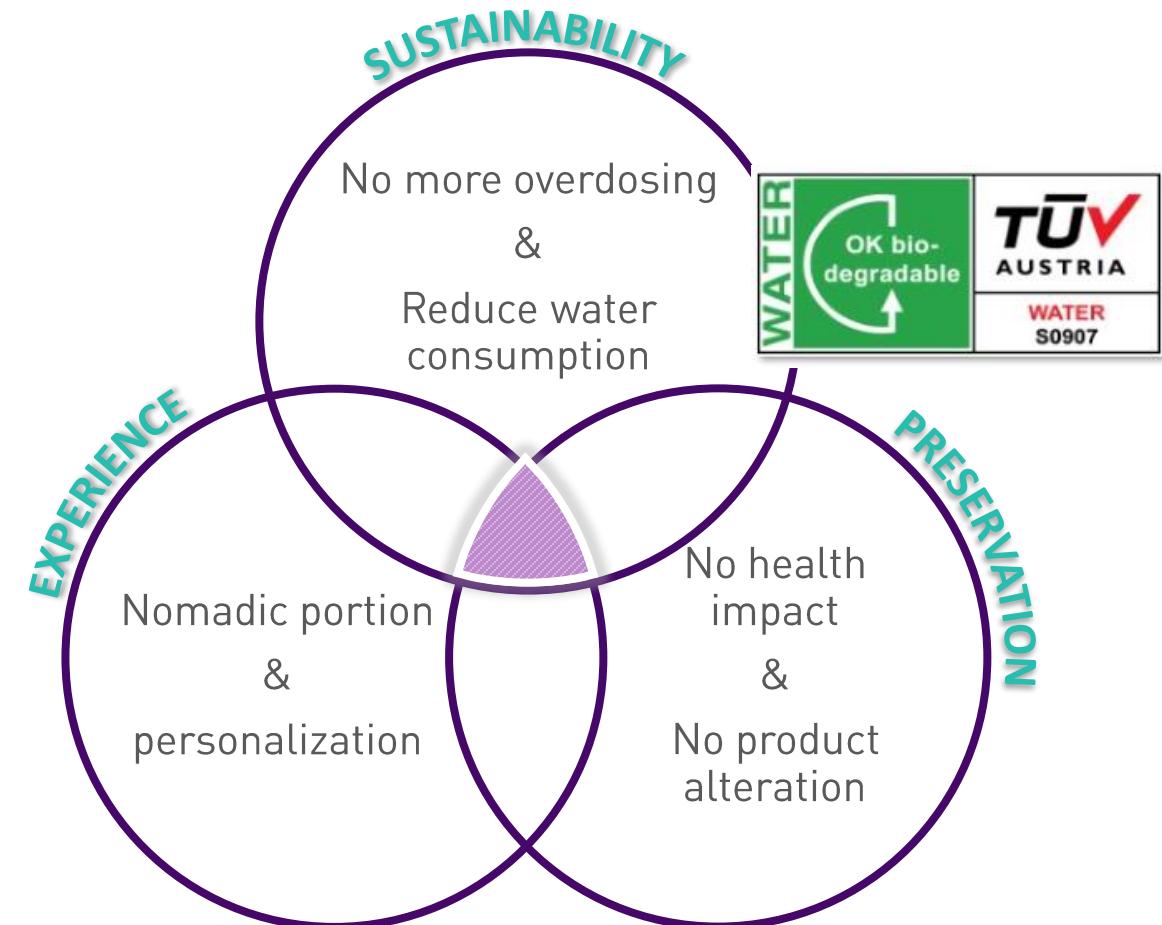
A WATER SOLUBLE  
AND  
BIODEGRADABLE  
MATERIAL MADE  
FROM NATURAL  
INGREDIENTS

# PERSONNAL CARE AND COSMETIC APPLICATIONS

## WATER SOLUBLE UNIDOSSES



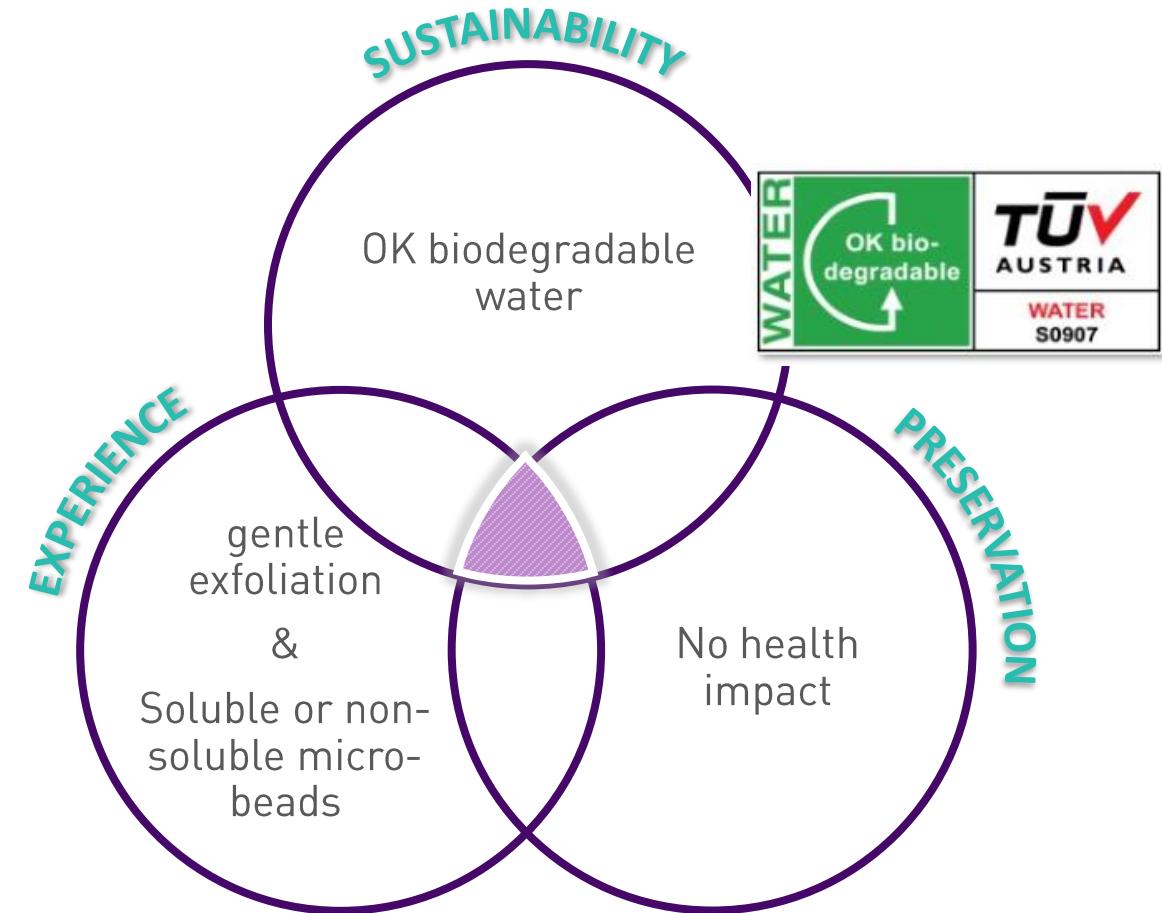
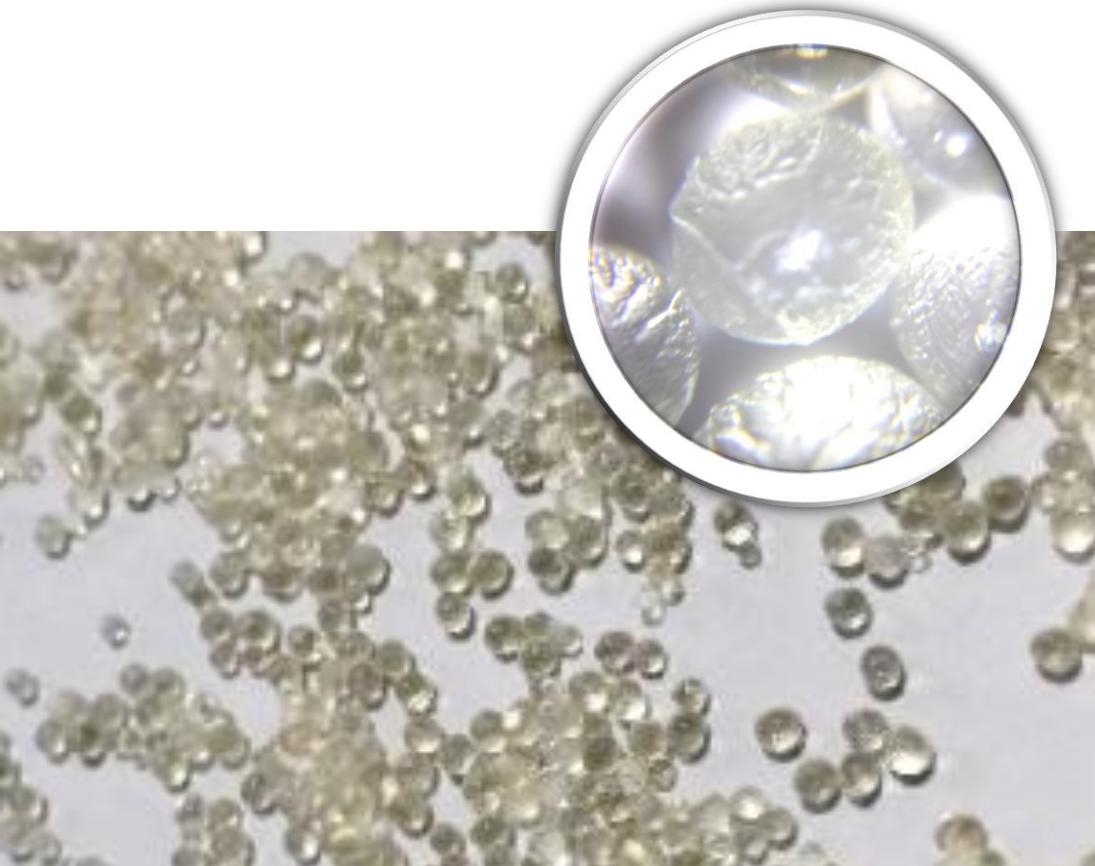
ACTIVE UNIDOSSES  
TO CUSTOMIZE PRODUCTS



Lactips

# PERSONNAL CARE AND COSMETICS APPLICATIONS

## BIODEGRADABLE MICRO-BEADS



Lactips

# A FUNCTIONALIZABLE MATERIAL



CARRIER MATERIAL  
PROCESSING AIDS

A fast processing process : < 2 min  
A low transformation temperature : < 100 °C

ADD COLOURS, FLAVORS, FATS,  
IMPROVING SHELF LIFE AGENTS, ...

## FOOD

Flavored pellets

Active film

## CARE & COSMETICS

Micro-beads with active ingredients

Perfumed film

Lactips



BE  
Disrup-  
tive

Feel free to contact us for more information:

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[www.lactips.com](http://www.lactips.com)



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