The elegant upcycled texturizer for cool skincare

**Origin:**
- A 100% nature-derived texturizer combining up-cycled lemon & lime fibers and biofermented sclerotium gum
- Lemon & lime peel fibers activated through a patented physical process and co-processed with sclerotium gum.

**Traceability & sustainability:**
- Up-cycling: using side stream of lemon & lime juice to extract citrus peel fibers. Lemon & lime valorization up to 96% !
- Bio-fermentation of sugar with 100% renewable feedstocks
- Citrus mainly sourced from Argentine, Brazil, Mexico & Peru³
- Made in France (Normandy)

**Uniqueness:**
- Up-cycled texturizer with suspending properties
- Quick break effect
- Premium sensoriality with very smooth after feel
- Cooling effect & long-lasting freshness
- Patented process & application

**Technical data:**
- Dose of use : 0.5-2.5%
- Form : light beige powder
- Cold or Hot processable
- Shear thinning behavior

**Compatibility:**

<table>
<thead>
<tr>
<th>NaCl %</th>
<th>0</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+</td>
<td>+</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alcohol</th>
<th>0</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+</td>
<td>+</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>pH</th>
<th>3</th>
<th>7</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
</tbody>
</table>
Applications

When to use FiberDesign™ Citrus?
- To thicken gels or emulsions in a wide range of textures: serums, gel, lotion to cream
- To develop products targeting conscious consumers who want zero waste beauty
- To suspend pigments or particles
- To provide a fresh after-feel with a long-lasting cooling effect
- To bring elegant sensoriality to the product & a smooth after-feel
- To include an up-cycled ingredient into the formulation

Formulation tips

In water

1. Use a proportionated vessel & homogenizer
2. Use a high shear homogenizer

Product details

- CAS Nº Citrus Limon (Lemon) Peel Powder 84929-31-7, Sclerotium gum 39464-87-4, Citrus Aurantifolia (lime) peel powder 90063-52-8
- Packaging: 20 kg (net) PE bags hermetically sealed
- Shelf life after production date (months): 18
- IECIC registered

Contact us at: beauty@cargill.com

1 According to OECD 301b
2 The responsibility of a vegan claim lies with the cosmetic manufacturer. Please consult your own legal or regulatory experts to ensure suitability of the product with your preferred standard.
3 The source may vary depending on availability
4 Product made to food grade GMPs and has not been tested in sunscreen. Manufacturer is responsible for compliance with with corresponding regional and global sunscreen regulations.

Disclaimer: This document is for your information and convenience only. All information, statements, recommendations and suggestions are believed to be true and accurate under local laws but are made without guarantee, express or implied. WE DISCLAIM, TO THE FULLEST EXTENT PERMITTED BY LAW, ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE and FREEDOM FROM INFRINGEMENT and disclaim all liability in connection with the storage, handling or use of our products or information, statements, recommendations and suggestions contained herein. All such risks are assumed by you/us. The labeling, substantiation and decision making relating to the regulatory approval status of the labeling on and claims for your products is your responsibility. We recommend you consult regulatory and legal advisors familiar with applicable laws, rules and regulations prior to making regulatory, labeling or claims decisions for your products. The information, statements, recommendations and suggestions contained herein are subject to change without notice.