

## ReNüTeq Product EOL – Disposition

Date: 1-9-2023

Manufacturer: ReNüTeq Solutions, LLC. – St. Louis, Missouri, USA.

Description: End of Life - Disposition

### The product:

[ReNüTeq® Structural Engineered Bamboo \(SEB\)](#)



### Specifics of ReNüTeq SEB product End of Life:

#### Recyclability:

ReNüTeq products are considered as non-recyclable, as the definition requires that products may be blended and/or dissolved down, and reconstituted into the exact same product, such as what is possible with most aluminum/steel, and many plastics. SEB may be ground down or cut down into smaller elements and manufactured into other non-structural products such as: fiber board, particle board, flooring, furniture, or other commodity applications.

#### Reusability:

ReNüTeq products are considered as reusable: SEB may be implemented into similar applications with minimal modification. In most cases, ReNüTeq products may be lightly sanded, fabricated, and re-used for many other applications, both structural and non-structural.

#### Adhesive Content:

ReNüTeq implements only [Low VOC Adhesives](#) and finishes. SEB, at the cellular level is very dense and has a very closed cellular structure: Because of this, adhesives and finishes are unable to penetrate below the surface of the SEB material. The result of this low penetration is very low adhesive content absorption into the finished product.

It is so low that when tested per USDA BioPreferred test methods, the adhesive content did not register in the test data, and/or the adhesive is broken down into molecules that are considered innate or bio-based material that is not harmful or toxic for human or animal contact. ReNüTeq SEB product is certified as 100% USDA BioBased product. See attached Document with test data.

**Treatments:**

ReNüTeq SEB products are all treated for durability and resistance to mold and organic attack by organisms during production and before adhesive is applied to create the final product. The treatment implemented across all ReNüTeq SEB products is a completely non-toxic and natural preservative: [Boric Acid](#). The slats are soaked per our proprietary process and dried to 9-11% moisture content before the products are engineered into SEB components. This treatment is considered as non-harmful and has similar properties as common table salt. Boric Acid has been proven to preserve our SEB products for both interior and exterior applications from all forms of degradation when implemented as fabricated and specified by ReNüTeq per application and use for each product.

**Finish:**

ReNüTeq SEB products are typically finished with a [Low VOC](#) finish system to seal the final product to ensure durability and stability in the specified application. As many different finish systems are implemented into ReNüTeq's finished products, it is advisable that before the materials are implemented into other products, the finishes are sanded off or removed with a non-toxic chemical as recommended by the USDA.

**Biodegradability:**

ReNüTeq SEB products are fully biodegradable: SEB products shall be ground into chips or dust and dispersed as recommended for timber and other natural foliage as recommended by the USDA. When conditions are properly created, SEB will fully biodegrade into soil within 2-4 years, (similar to most hardwood species).

Please contact ReNüTeq with any questions: [info@renuteq.com](mailto:info@renuteq.com)

Signed:



Luke D. Schuette, President & CEO

ReNüTeq Solutions, LLC.

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