
DATE: 21 March 2023

TO: Note-to-File

CC: Rebecca Lacouture, COO, Evolved by Nature

FROM: Vivian Chan, Director of Applications, Sustainable Chemicals and Core

SUBJECT: Per- and Polyfluoroalkyl Substances (PFAS) substantiation

Intended Claim

The following is intended to provide documentation to support the claim that the Activated Silk™ L1 BioFinishing System (comprised of the L5267 basecoat and the L0822 topcoat) from Evolved By Nature is PFAS free.

Substantiation

In the evaluation of the Activated Silk™ L1 BioFinishing System, the L5267 and L0822 formulations were assessed for presence on the below chemical inventory and restricted substances lists:

- U.S. Environmental Protection Agency’s PFAS ToxCast Chemical Inventory list (Updated August 10th, 2021)
- H&M Group Chemical Restrictions 2023 MRSL and RSL
- Apparel and Footwear International RSL Management (AFIRM) RSL

The chemicals were searched using Chemical Abstract Service Number (CAS#) and chemicals names. None of the chemicals were found on the EPA PFAS ToxCast Chemical Inventory list or the RSLs, indicating that they are PFAS free. In the case of L5267, where one of the components is a trade secret, the component was analyzed using Liquid Chromatography Mass Spectrometry (LCMS) and each possible ID components were also assessed against the lists.

Based on this evaluation, it is determined that the Activated Silk™ L1 BioFinishing System is considered PFAS free.

Summary of Changes

Revision	Change #	Author	Summary of Changes
A	CR-02019	V. Chan	Initial Release