

## **GLYCERYL COLLAGENATE, GLYCERYL SESQUIOLEATE, GLYCERYL/SORBITOL OLEATE/HYDROXYSTEARATE, GLYCERYL STEARATE/MALEATE, AND GLYCERYL THIOPROPIONATE**

The Expert Panel for Cosmetic Ingredient Safety (Panel) first published a safety assessment on Glyceryl Collagenate, Glyceryl Sesquioleate, Glyceryl/Sorbitol Oleate/Hydroxystearate, Glyceryl Stearate/Maleate, and Glyceryl Thiopropionate in 2004.<sup>1</sup> In that assessment, the Panel concluded that these 5 ingredients are safe as cosmetic ingredients in the present practices of use and concentration as described in that report. Please note that the report published in 2004 assessed the safety of 43 ingredients; however, the majority of those ingredients have been included in other safety assessments and therefore were not considered in this re-review.

Because it has been at least 15 years since the final report was published, in accordance with Cosmetic Ingredient Review (CIR) Procedures, the Panel considered whether the safety of these 5 ingredients should be reassessed. At the March 2025 meeting, the Panel reviewed updated frequencies of use, according to US Food and Drug Administration (FDA) Registration and Listing Data (RLD; 2024)<sup>2</sup> and Voluntary Cosmetic Registration Program (VCRP; 2023) database,<sup>3</sup> as well as the results of a concentration of use survey that was conducted by the Personal Care Products Council in 2022.<sup>4</sup> According to these sources, these ingredients are not reported to be in use; of note, these ingredients were also not in use at the time of the original safety assessment.

In January 2025, an extensive search of the world's literature was performed for studies dated 1999 forward. No notable new data were found for these 5 ingredients.

To reiterate, there were no new safety data and these ingredients are not reported to be in use. In accordance with CIR Procedures, because there are insufficient data to review the safety of these ingredients and there are no reported frequency or concentrations of use, Glyceryl Collagenate, Glyceryl Sesquioleate, Glyceryl/Sorbitol Oleate/Hydroxystearate, Glyceryl Stearate/Maleate, and Glyceryl Thiopropionate are classified as insufficient data-zero use. Accordingly, the Panel concluded that the use of these ingredients in cosmetics is not supported.

### **REFERENCES**

1. Andersen FA (ed). Final Report of the Amended Safety Assessment of Glyceryl Laurate, Glyceryl Laurate SE, Glyceryl Laurate/Oleate, Glyceryl Adipate, Glyceryl Alginate, Glyceryl Arachidate, Glyceryl Arachidonate, Glyceryl Behenate, Glyceryl Caprate, Glyceryl Caprylate, Glyceryl Caprylate/Caprates, Glyceryl Citrate/Lactate/Linoleate/Oleate, Glyceryl Cocoate, Glyceryl Collagenate, Glyceryl Erucate, Glyceryl Hydrogenated Rosinate, Glyceryl Hydrogenated Soyate, Glyceryl Hydroxystearate, Glyceryl Isopalmitate, Glyceryl Isostearate, Glyceryl Isostearate/Myristate, Glyceryl Isostearates, Glyceryl Lanolate, Glyceryl Linoleate, Glyceryl Linolenate, Glyceryl Montanate, Glyceryl Myristate, Glyceryl Isotridecanoate/Stearate/Adipate, Glyceryl Oleate SE, Glyceryl Oleate/Elaidate, Glyceryl Palmitate, Glyceryl Palmitate/Stearate, Glyceryl Palmitoleate, Glyceryl Pentadecanoate, Glyceryl Polyacrylate, Glyceryl Rosinate, Glyceryl Sesquioleate, Glyceryl/Sorbitol Oleate/Hydroxystearate, Glyceryl Stearate/Acetate, Glyceryl Stearate/Maleate, Glyceryl Tallowate, Glyceryl Thiopropionate, and Glyceryl Undecylenate. *Int J Toxicol.* 2004;23(Suppl 2):55–94.
2. US Food and Drug Administration Office of the Chief Scientist. 2024. Registration and Listing Data - Frequency of Use of Cosmetic Products. College Park, MD [Obtained under the Freedom of Information Act from the Division of Freedom of Information; requested as "Frequency of Use Data" July 17, 2024; received July 30, 2024].
3. US Food and Drug Administration Center for Food Safety & Applied Nutrition. 2023. Voluntary Cosmetic Registration Program - Frequency of Use of Cosmetic Ingredients. College Park, MD [Obtained under the Freedom of Information Act from CFSAN; requested as "Frequency of Use Data" 2023; received February 2, 2023].
4. Personal Care Products Council. 2022. Concentration of Use by FDA Product Category: Glyceryl Collagenate, Glyceryl Isostearates, Glyceryl Sesquioleate, Glyceryl/Sorbitol Oleate/Hydroxystearate, Glyceryl Stearate/Acetate, Glyceryl Stearate/Maleate and Glyceryl Thiopropionate. [Unpublished data submitted to Personal Care Products Council on January 12, 2022.].