ADMIN

Priorities

EXPERT PANEL MEETING September 26-27, 2022



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Memorandum

Date: September 1st, 2022

From: Bart Heldreth, Ph.D., Executive Director, Cosmetic Ingredient Review

To: All Stakeholders

Re: 2023 Draft Final Priority List

The CIR Procedures require preparation of the 2023 Draft Priority List for public comment by June 1, 2022. This list was provided to the Panel and reviewed at the March 2022 meeting; comments made at the March meeting have been considered and incorporated into this 2023 Draft Final Priority List. The priority list is typically based on stakeholder requests for cause (e.g., a hair dye) and frequency of use (FOU) data from FDA's Voluntary Cosmetic Registration Program (VCRP); this year, VCRP data were received from the FDA on January 11 (in response to a Freedom of Information Act request).

While this list includes only the lead ingredients, groupings of ingredients, drafted by CIR Staff, can be found on the following pages. There are 17 reports proposed, covering 75 ingredients, on the 2023 Draft Priorities List. (Two of the ingredients on this list are proposed to be grouped together in 1 report.) This list includes a proposal of a hair dye for assessment received from the PCPC Hair Color Technical Committee (HCTC; proposal included as *HCTCrecommendation_2023DraftFinal Priorities_092022*). Additionally, this list includes the prostaglandin analogues the Panel agreed to in June; the CIR SCC has provided comments on this grouping (comments included as *CIRSSC comments_2023Draft-FinalPriorities_092022*). Reports previously prioritized and on the CIR docket at the end of 2022, as well as an extensive number of re-reviews of previous assessments, will supplement the total number of reports/ingredients to be assessed in 2023.

Once the priority list is finalized, interested parties are encouraged to submit pertinent data to the CIR, as soon as possible, for use in the development of the Scientific Literature Reviews for these ingredients. Although the specific data needs vary for each safety assessment, the following are typical data that the Panel reviews for each safety assessment.

- Chemistry, impurities, and method of manufacture, specific to use in cosmetics
- Toxicokinetics data, specifically dermal absorption and/or penetration
- Repeated-dose toxicity data
- Inhalation toxicity data, if the ingredient is used in a product that can be incidentally inhaled

- Reproductive/developmental toxicity data
- Genotoxicity data; if positive, carcinogenicity data may be needed
- Dermal irritation and sensitization data at maximum concentration of use

For the review of botanical ingredients, the additional data needed include: species, plant part, extraction method, solvent, and data on component chemical characterization. It is important that these data are specific for the ingredient(s) as used in cosmetics.

2023 Draft Final Priorities List

Ingredients	Frequency of Use (FOU) Data Year 2022
For cause	
HC Blue No. 15	22
Prostaglandin analogues	"3"
Per FOU	
Sodium Hydrosulfite	246
Pelargonium Graveolens Flower Oil	236
Phytosteryl/Isostearyl/Cetyl/Stearyl/Behenyl Dimer Dilinoleate	234
Diglycerin	211
Polyglycerin-3	208
Sigesbeckia Orientalis Extract	202
Houttuynia Cordata Extract	201
Malva Sylvestris (Mallow) Extract	198
Palmitoyl Pentapeptide-4	198
Salix Alba (Willow) Bark Extract	197
Centaurea Cyanus Flower Extract	196
Lactobacillus Ferment	196
Copper Gluconate	192
Inositol	190
Paeonia Suffruticosa Root Extract	189
Nelumbo Nucifera Flower Extract	182

2023 Draft Final Priorities Groupings for New Reports

<u>Proposed 2023 Reports – per cause</u>

HC Blue No. 15 – proposed PCPC Hair Color Technical Committee(HCTC)

FOU = 22

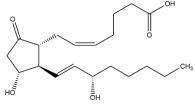
Reported Function: Hair Colorant

Notes: Since FOU might not be a very accurate surrogate for exposure, with regard to hair dyes, the PCPC HCTC proposes one hair dye ingredient annually for Panel review. The HCTC typically submits a proposed hair dye ingredient between the 1^{st} and 2^{nd} meetings of the year.

Grouping: None

Prostaglandins analogs – e.g., Isopropyl Cloprostenate FOU = 3

- Alert from Dr. Belsito about SCCS activity; conformation from FDA about cosmetic use



prostaglandin

<u>Reported</u> Functions: Hair Conditioning Agents; Eyelash Conditioning Agents; Nail Conditioning Agents; Antimicrobial Agents; Antioxidants; Skin-Conditioning Agents - Miscellaneous

Notes: These are prostaglandin analogs that might be in use as cosmetic ingredients, despite more common usage as drugs.

Grouping: (14 ingredients proposed with a total FOU = 3)	<u>FOU</u>
Isopropyl Cloprostenate	3
Dehydrolatanoprost	-
Ethyl Tafluprostamide	-
Bimatoprost	-
Cyclopropylbimatoprost	-
Cloprostenol	-
Travoprost	-
Dihydroxypropyl Didehydrolatanoprostamide	-
Norbimatoprost	-
Nortafluprost	-
Trifluoromethyl Dehydrolatanoprost	-
Methyl Bimatoprost Acidate	-
Noralfaprostol & Travoprostamide	- & -

Proposed 2023 Reports - per FOU

Sodium Hydrosulfite

FOU = 246

Definition: Sodium Hydrosulfite is the inorganic salt that conforms to the formula Na₂S₂O₄.

Reported Function: Reducing Agents

Grouping: None

Pelargonium Graveolens Flower Oil

FOU = 236

Definition: Pelargonium Graveolens Flower Oil is the volatile oil obtained from the flowers of *Pelargonium graveolens*.



<u>Reported</u> Functions: Fragrance Ingredients; Skin-Conditioning Agents - Miscellaneous Notes: (CAS Nos. 90082-51-2 (generic) and 8000-46-2) Pelargonium Graveolens Oil (FOU 179), Pelargonium Graveolens Leaf Oil (FOU 13), and Pelargonium Graveolens Flower/Leaf/Stem Water (FOU 9) are fragrance only ingredients.

Grouping: (5 ingredients proposed with a total FOU = 294)	<u>FOU</u>
Pelargonium Graveolens Flower Oil	236
Pelargonium Graveolens Extract	49
Pelargonium Graveolens Flower Water	4
Pelargonium Graveolens Flower Extract	3
Pelargonium Graveolens Leaf Extract (VCRP name only)	2

Phytosteryl/Isostearyl/Cetyl/Stearyl/Behenyl Dimer Dilinoleate

FOU = 234

Definition: Phytosteryl/Isostearyl/Cetyl/Stearyl/Behenyl Dimer Dilinoleate is the ester of Dilinoleic Acid with a mixture of Phytosterols, Isostearyl Alcohol, Cetyl Alcohol, Stearyl Alcohol, and Behenyl Alcohol.

wherein the carboxylic acid functional groups are esterified with Phytosteryl, Isostearyl, Cetyl, Stearyl, and/or Behenyl chains.

<u>Reported</u> Functions: Hair Conditioning Agents; Skin-Conditioning Agents - Occlusive; Viscosity Increasing Agents - Nonaqueous

Notes: Final Amended Safety Assessment of Dialkyl Dimer Dilinoleates as Used in Cosmetics finalized in 2018 with a safe as used conclusion for all 8 ingredients therein. Final assessment on Diisostearoyl Polyglyceryl-3 Dimer Dilinoleate finalized in 2016 with a safe when formulated to be non-irritating conclusion.

Grouping: (7 ingredients proposed with a total FOU = 398)	<u>FOU</u>
Phytosteryl/Isostearyl/Cetyl/Stearyl/Behenyl Dimer Dilinoleate	234
Bis-Behenyl/Isostearyl/Phytosteryl Dimer Dilinoleyl Dimer Dilinoleate	82
Stearyl/PPG-3 Myristyl Ether Dimer Dilinoleate	33
Dimer Dilinoleyl Dimer Dilinoleate	23
Bis-Behenyl/Phytosteryl Dimer Dilinoleate	19
Phytosteryl Isostearyl Dimer Dilinoleate	6
Octyldodecyl/PPG-3 Myristyl Ether Dimer Dilinoleate	1

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Diglycerin & Polyglycerin-3

FOU = 211 FOU = 208

Definition: Diglycerin is a dimer of Glycerin. Dimerization (and resultant connectivity) can occur at any of the alcohol groups (although less substituted alcohols are energetically favored (i.e., primary > secondary >> tertiary).

Reported Functions: Humectants; Skin-Conditioning Agents - Humectant

Notes: (CAS No. 59113-36-9) Polyglycerin-3 is essentially "triglycerin."

Grouping: (4 ingredients proposed with a total FOU = 451)	<u>FOU</u>
Diglycerin	211
Polyglycerin-3	208
Polyglycerin-10	29
Polyglycerin-6	3

Sigesbeckia Orientalis Extract

FOU = 202

Definition: Sigesbeckia Orientalis Extract is the extract of Sigesbeckia orientalis.



Reported Functions: Skin-Conditioning Agents - Miscellaneous

Notes: VCRP name is "Sigesbeckia Orientalis (Eastern St. Paul's Wort) Extract"

Grouping: None

Houttuynia Cordata Extract

FOU = 201

Definition: Houttuynia Cordata Extract is the extract of the herb, *Houttuynia cordata*.



Reported Functions: Skin-Conditioning Agents - Miscellaneous

Notes: (CAS No. 164288-50-0)

Grouping: (2 ingredients proposed with a total FOU = 203)FOUHouttuynia Cordata Extract201Houttuynia Cordata Powder2

Malva Sylvestris (Mallow) Extract

FOU = 198

Definition: Malva Sylvestris (Mallow) Extract is the extract of the whole plant, *Malva sylvestris*.



Reported Functions: Skin-Conditioning Agents - Miscellaneous

Notes: Related to Althaea officinalis or marshmallow.

Grouping: (8 ingredients proposed with a total FOU = 287)	<u>FOU</u>
Malva Sylvestris (Mallow) Extract	198
Malva Sylvestris (Mallow) Flower Extract	72
Malva Sylvestris (Mallow) Flower/Leaf/Stem Extract	5
Malva Sylvestris (Mallow) Flower/Leaf Extract	4
Malva Sylvestris (Mallow) Leaf Extract	4
Malva Sylvestris (Mallow) Oil (VCRP name only)	2
Malva Sylvestris (Mallow) Leaf Powder	1
Malva Sylvestris (Mallow) Flower	1

Palmitoyl Pentapeptide-4

FOU = 198

Definition: Palmitoyl Pentapeptide-4 is the reaction product of palmitic acid and Pentapeptide-4. Pentapeptide-4 is a synthetic peptide containing lysine, serine and threonine (PAL-LYS-THR-THR-LYS-SER).

Reported Functions: Skin-Conditioning Agents - Miscellaneous

Notes: (CAS Nos. 214047-00-4 & 521091-64-5) the 3 proposed ingredients all share the same peptide

sequence

Grouping: (3 ingredients proposed with a total FOU = 202)	<u>FOU</u>
Palmitoyl Pentapeptide-4	198
Pentapeptide-4	1
Myristoyl Pentapeptide-4	3

Salix Alba (Willow) Bark Extract

FOU = 197

Definition: Salix Alba (Willow) Bark Extract is the extract of the bark of Salix alba.



<u>Reported</u> Functions: Hair Conditioning Agents; Skin-Conditioning Agents - Occlusive

Notes: (CAS No. 84082-82-6) Willow tree

Grouping: (2 ingredients proposed with a total FOU = 238)FOUSalix Alba (Willow) Bark Extract197Salix Alba (Willow) Leaf Extract41

Centaurea Cyanus Flower Extract

FOU = 196

Definition: Centaurea Cyanus Flower Extract is the extract of the flowers of the cornflower, *Centaurea cyanus*.



Reported Functions: Cosmetic Astringents; Skin-Conditioning Agents - Miscellaneous

Notes: (CAS No. 84012-18-0) "Cornflower"

Grouping: (3 ingredients proposed with a total FOU = 265)	<u>FOU</u>
Centaurea Cyanus Flower Extract	196
Centaurea Cyanus Flower Water	68
Centaurea Cyanus Flower Petals (VCRP name only)	1

Lactobacillus Ferment

FOU = 196

Definition: Lactobacillus Ferment is the product obtained through fermentation by the microorganism, *Lactobacillus*.

Reported Functions: Not Reported

Notes: (CAS No. 2380025-37-4 (generic)) Probiotics?

Grouping: (4 ingredients proposed with a total FOU = 213)	<u>FOU</u>
Lactobacillus Ferment	196
Lactobacillus Ferment Lysate	8
Lactobacillus Ferment Lysate Filtrate	6
Lactobacillus Ferment Filtrate	3

Copper Gluconate

FOU = 192

Definition: Copper Gluconate is the copper salt of gluconic acid that conforms to the formula:

Reported Function: Skin-Conditioning Agents – Miscellaneous

Notes: (CAS No. 527-09-3)

Grouping: None

Inositol FOU = 190

Definition: Inositol is the cyclic polyol that conforms generally to the formula:

Reported Function: Hair Conditioning Agents; Humectants

Notes: (CAS Nos. 643-12-9 & 87-89-8)

Grouping: None

Paeonia Suffruticosa Root Extract

FOU = 189

Definition: Paeonia Suffruticosa Root Extract is the extract of the roots of *Paeonia suffruticosa*.



Reported Functions: Skin-Conditioning Agents - Miscellaneous

Notes: (CAS No. 223747-88-4 (generic))

Grouping: (5 ingredients proposed with a total FOU = 216)	<u>FOU</u>
Paeonia Suffruticosa Root Extract	189
Paeonia Suffruticosa Extract	13
Paeonia Suffruticosa Bark Extract	7
Paeonia Suffruticosa Seed Oil	5
Paeonia Suffruticosa (Tree Peony) Root Bark Extract (VCRP name only)	2

Nelumbo Nucifera Flower Extract

FOU = 182

Definition: Nelumbo Nucifera Flower Extract is the extract of the flower of Nelumbo nucifera.



Reported Functions: Skin-Conditioning Agents - Miscellaneous

Notes: (CAS No. 85085-51-4 (generic)) "Lotus"

Grouping: (13 ingredients proposed with a total FOU = 285)	<u>FOU</u>
Nelumbo Nucifera Flower Extract	182
Nelumbo Nucifera Seed Extract	26
Nelumbo Nucifera Leaf Extract	17
Nelumbo Nucifera Root Extract	16
Nelumbo Nucifera Flower Water	14
Nelumbo Nucifera Flower Oil (VCRP name only)	9
Nelumbo Nucifera Callus Culture Extract	7
Nelumbo Nucifera Germ Extract	8
Nelumbo Nucifera Extract	2
Nelumbo Nucifera Stamen Extract	1
Nelumbo Nucifera Flower/Leaf/Stem Juice	1
Nelumbo Nucifera Seed Powder	1
Nelumbo Nucifera Root Water	1



TO: Bart Heldreth Ph.D.

Executive Director - Cosmetic Ingredient Review

FROM: CIR Science and Support Committee of the Personal Care Products Council

DATE: August 2, 2022

SUBJECT: 2023 Priorities: Prostaglandin Analogues

The CIR Science and Support Committee (CIR SSC) appreciates the opportunity to comment on the inclusion of prostaglandin analogues on the 2023 priority list.

We recommend that the Expert Panel for Cosmetic Ingredient Safety focus their review on the prostaglandin analogue that has uses reported to the FDA Voluntary Cosmetic Registration Program (VCRP) (Isopropyl Cloprostenate), and ingredients that are structurally related to the in-use ingredient that are expected to have similar activity as the lead ingredient. During the June 2022 meeting, members of the Expert Panel indicated that pharmacologic activity varies among prostaglandin analogues and that read-across would not be appropriate. Therefore, it would be helpful if the first review of this class of ingredients focused on the in-use ingredient rather than trying to identify the data on all the prostaglandin analogues reviewed in the opinion of the European Scientific Committee on Consumer Safety (SCCS).



Memorandum

TO: Bart Heldreth, Ph.D.

Executive Director – Cosmetic Ingredient Review (CIR)

FROM: Hair Coloring Technical Committee (HCTC) of the Personal Care Products Council

DATE: March 31, 2022

SUBJECT: Hair Dye Ingredient Recommended for Inclusion in the 2023 CIR Priority List of

Ingredients

The Hair Coloring Technical Committee (HCTC) recommends that the hair dye HC Blue No. 15 be included as the hair dye ingredient in the 2023 priority list of ingredients for review by CIR. HC Blue No. 15 has 22 uses reported in the 2022 FDA Voluntary Cosmetic Registration Program (VCRP). This hair dye ingredient has been reviewed by the European Scientific Committee on Consumer Safety (SCCS). The opinion is available at: Opinion of the Scientific Committee on Consumer Safety on HC Blue 15 (C182) (europa.eu)