

129th COSMETIC INGREDIENT REVIEW EXPERT PANEL  
MEETING  
BREAKOUT SESSION

Washington, D.C.

Monday, December 9, 2013

## 1 PARTICIPANTS:

## 2 Voting Members:

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4 Head of Clinical Research and Dermatopathology  
The Cleveland Clinic Foundation

5 RONALD A. HILL, Ph.D.  
6 Associate Professor of Medicinal Chemistry  
7 College of Pharmacy  
The University of Louisiana at Monroe

8 JAMES G. MARKS, JR., M.D.  
9 Professor of Dermatology  
Chairman, Department of Dermatology  
Pennsylvania State University College of Medicine

10 THOMAS J. SLAGA, Ph.D.  
11 Department of Pharmacology  
University of Texas Health Science Center

## 12 Liaison Members:

13 JAY ANSELL, Ph.D.  
14 Personal Care Products Council

## 15 Staff Members:

16 LILLIAN J. GILL, D.P.A.  
Director

17 IVAN BOYER, Ph.D.  
18 Senior Toxicologist

19 MONICE FIUME  
Senior Scientific Analyst

20 CHRISTINA L. BURNETT  
21 Scientific Analyst

22 BART HELDRETH, Ph.D.  
Chemist

1 P R O C E E D I N G S

2 (8:55 a.m.)

3 DR. MARKS: Let's do that. And again  
4 for the record, I have Ron Shank's input on these  
5 ingredients, which I'll refer to intermittently as  
6 we go along if Ron Shank doesn't conference call  
7 in with us. He's supposed to, but we'll see.

8 So the first ingredient is the amino  
9 acid alkyl amides.

10 DR. BERGFELD: Can I just ask you a  
11 question? How will you know he's called in?

12 DR. MARKS: I think very once in a while  
13 we'll take it off of hold. Hey, Tom, are you  
14 there?

15 (No response.)

16 DR. MARKS: So in September, the expert  
17 panel concluded these ingredients were safe in the  
18 present practices of use and concentration  
19 cosmetics when formulated to be non-irritating.  
20 We have the draft final report in front of us, and  
21 I think we can move forward and issue a final  
22 report. I had no comments. I thought it was well

1 written, Christina. Ron Shank didn't have any  
2 comments in terms of editorial. We can certainly  
3 get Tom Slaga's and Ron Hill's afterward.

4 So let me see. If we have the meeting  
5 tomorrow morning, we also talked about potentially  
6 moving this up. But when we have the expert panel  
7 meeting to go over each one of these ingredients,  
8 I'll move that we issue a final report with that  
9 conclusion, safe when formulated to be non-  
10 irritating. Christina, any comments or Wilma?

11 MS. BURNETT: Did you want to include  
12 the fact that the discussion was expanded to  
13 include the impurity information on the amines?

14 DR. MARKS: Yes.

15 DR. BERGFELD: And the sensation of the  
16 triethyl amine?

17 DR. MARKS: Can you hear that? Did you  
18 hear Dr. Bergfeld once she said that? Good.

19 DR. BERGFELD: And we had made a point  
20 to clarify that this was a pH adjuster. Is that  
21 correct? No?

22 DR. MARKS: Let me look at the minutes.

1 MS. BURNETT: I don't recall.

2 DR. BERGFELD: You don't recall that?  
3 You would know better. Then I must've misheard  
4 that. Okay.

5 MS. BURNETT: I don't have --

6 DR. BERGFELD: You don't have that.

7 MS. BURNETT: I don't have that listed  
8 as --

9 DR. BERGFELD: Okay, that's fine.  
10 That's fine. There was another one that I must've  
11 just written down.

12 DR. MARKS: Okay. Any other comments?

13 (No response.)

14 DR. MARKS: If not, then we'll go ahead  
15 and move onto the next ingredient. So again, for  
16 these amides, final report with "safe when  
17 formulated to be non-irritating" And, Christina, I  
18 think for our team, as the whole day moves  
19 forward, I think if there's any editorial  
20 comments, I'll depend on my team members to get  
21 them to you.

22 MS. BURNETT: Okay.

1 DR. MARKS: Again, for the record, Ron  
2 Shank, he will not be making the meeting. He will  
3 be sending his flash drive with comments.

4 Okay. The next ingredient or  
5 ingredients are the alkyl betaines. At the  
6 September 2013 meeting, the expert panel issued an  
7 insufficient data announcement where method of  
8 manufacturing and impurities. And I thought that  
9 was met, and so did Ron Shank. So I think we've  
10 met the insufficient data, and that we could move  
11 forward issuing a tentative report on the alkyl  
12 betaines with a "safe when formulated to be  
13 non-irritating." And I will be presenting that at  
14 the combined meeting.

15 Comments, Christina or Wilma? And then  
16 let me go back and let me -- Tom. Tom, can you  
17 hear me? Apparently not. He's not speaking to  
18 American Airlines anymore. And you had mentioned  
19 to Carla that -- Tom is up, so if we could get Tom  
20 on the phone, that would be good.

21 DR. BERGFELD: This is one that I had  
22 made a note to myself that the references for the

1 studies were in the table. But I wanted to go  
2 back and re-check whether I had seen them in the  
3 text, because I think I did not. That's why I was  
4 --

5 MS. BURNETT: No. I had summarized --

6 DR. BERGFELD: Yeah, you summarized --  
7 no, it doesn't matter to me, but not all the  
8 documents do it that way.

9 MS. BURNETT: Right. Right. Well,  
10 we'll work together to make sure that we're  
11 consistent.

12 DR. BERGFELD: Whatever you do, yeah.  
13 Okay. No. No, I just wondered, I was going back.  
14 Do you say see table or anything?

15 MS. BURNETT: Yes.

16 DR. BERGFELD: Okay. That's fine. That  
17 would be fine with me. But then when I went to  
18 other documents, they're in both places, and then  
19 --

20 MS. BURNETT: The Council made some  
21 comments.

22 DR. BERGFELD: Okay.

1 MS. BURNETT: And I think when we just  
2 briefly discussed some of them, I think it depends  
3 on how much data we were summarizing. If it was a  
4 lengthy thing, people kind of put the references  
5 in. If it's a short thing, then we tend to just  
6 let the table speak for itself. But we'll make  
7 sure that we're all doing it consistently so that  
8 it's --

9 DR. BERGFELD: Yeah, that would be nice.

10 MS. BURNETT: It's really easy just to  
11 insert --

12 DR. BERGFELD: All right.

13 DR. ANSELL: We also have a comment  
14 concerning the referencing of the REACH. We think  
15 it's great that the ECHA date is being included,  
16 but we should be clear that ECHA itself is not an  
17 author. These are being authored by consortia.

18 MS. BURNETT: Right. We're at odds with  
19 the Legal Department then because the Legal  
20 Department told us that it was perfectly  
21 appropriate to reference ECHA because Joe Q.  
22 Public --



1 DR. ANSELL: No, no, no. We agreed to  
2 the referencing. We don't think we should call  
3 them the author of the reports.

4 MS. BURNETT: Oh, I see that.

5 DR. ANSELL: ECHA is the source of the  
6 reports. They don't actually author anything.

7 MS. BURNETT: Is it in the text or in  
8 the reference section?

9 DR. ANSELL: They should not be listed  
10 as the author in the references section.

11 DR. BERGFELD: How would you list them?

12 DR. ANSELL: Source.

13 DR. BERGFELD: Source?

14 MS. BURNETT: We're going to have to  
15 manually put in "source" because how the reference  
16 program puts it you have to put in author, whether  
17 it's an actual entity or not. So we'll figure out  
18 how to do that. It's just for public. You know,  
19 when we're referencing website, they're going to  
20 see that they're going to be ECHA --

21 DR. ANSELL: Right. No, we think that  
22 all that's fine.

1 MS. BURNETT: Okay.

2 DR. ANSELL: You will note that Carol  
3 (inaudible) every single time.

4 MS. BURNETT: Yes.

5 DR. BERGFELD: Could I also make a  
6 comment? This is one that some of the  
7 documentation was scanned sideways.

8 DR. MARKS: Thanks, Wilma.

9 DR. ANSELL: Which is terrible on the  
10 iPad because when you turn the iPad sideways --

11 DR. MARKS: It turns, too.

12 DR. BERGFELD: Can you turn this on the  
13 computer?

14 MS. BURNETT: Which PDF page, please?

15 DR. BERGFELD: Well, it's right above  
16 the comments.

17 DR. ANSELL: Somewhere in view it should  
18 say.

19 DR. BERGFELD: View?

20 DR. ANSELL: Yes, ma'am.

21 DR. BERGFELD: Rotate view?

22 DR. ANSELL: Right, rotate --

1 MS. BURNETT: Everything is showing up

2 --

3 DR. MARKS: You can see at what level of  
4 sophistication we are in using this.

5 DR. BERGFELD: Oh, my god. Yeah.

6 DR. MARKS: Yeah.

7 DR. BERGFELD: Thank you.

8 DR. MARKS: Okay.

9 DR. BERGFELD: Not all of them are that  
10 way, so --

11 DR. MARKS: So to save us from having to  
12 manually go in and rotate, let's see if we can't

13 --

14 Any other comments? If not, then I will  
15 move tomorrow we move forward with a tentative  
16 report on the alkyl betaines with the conclusion  
17 of "safe when formulated to be non-irritating."

18 Okay. Any other comments?

19 (No response.)

20 DR. MARKS: Next ingredient is the  
21 polyvinyl alcohol. And this is a re-review. In  
22 '98, the CIR Final Report came to the conclusion

1 "safe as used in cosmetics." The uses have  
2 increased significantly as has the concentration  
3 gone up to 15 percent. The original report had an  
4 HRIPT of okay at 13 percent, so I thought that was  
5 not that much different from the present use  
6 concentration. It's medically used in transdermal  
7 patches and rapid drying jelly, so if there's a  
8 situation where there should be case reports of  
9 allergic to these, you would've thought those  
10 would've appeared since patients are getting  
11 essentially HRIPT within a patch or the jelly.

12 So I felt the new use concentration at  
13 15 percent was fine, and felt that we did not need  
14 to reopen. Ron Shank also felt there needed to be  
15 no reopening.

16 DR. BERGFELD: No reopening.

17 DR. MARKS: Okay. Tom Slaga, Ron Hill,  
18 any comments?

19 (No response.)

20 (Laughter.)

21 DR. MARKS: Next alumina, yes, and we've  
22 discussed about these ingredients are different

1 from aluminum. And in September the Panel  
2 reviewed the draft final report of alumina and  
3 aluminum hydroxide. It was tabled at the request  
4 of PCPC to incorporate some edits. We now have  
5 those edits, particularly with the discussion not  
6 connecting the toxicity of aluminum with these  
7 ingredients. So we're at the point now where we  
8 can issue a final safety assessment for alumina  
9 and alumina hydroxide with a conclusion of "safe."

10 DR. BERGFELD: Agreed.

11 DR. MARKS: Okay. And Ron Shank agreed  
12 that it could move forward with "safe." Jay, from  
13 the PC's point of view, is the wording now in  
14 dealing with aluminum and the edits that were  
15 made, has Lillian captured those well?

16 DR. ANSELL: Yeah. We thank the author  
17 for making the corrections. There are still a few  
18 technical errors, which we provided directly, but  
19 with those corrections we have a --

20 DR. BERGFELD: Did that happen? Did it  
21 happen? The corrections occurred already?

22 DR. ANSELL: Well, there are a few more

1 corrections that --

2 DR. BERGFELD: A few more?

3 DR. ANSELL: -- we've provided, but  
4 they're C.F.R. References, correcting the  
5 numbers. But we've sent those along, and with  
6 those comments included, we think it's ready to go  
7 final.

8 DR. MARKS: And none of those edits from  
9 your point of view, Jay or Lillian, substantially  
10 change the document.

11 DR. GILL: No. No.

12 DR. MARKS: They're more corrective sort  
13 of --

14 DR. GILL: Yes.

15 DR. MARKS: Nothing that changes the  
16 intent of the document.

17 DR. GILL: Nothing that's going to  
18 change anything in the outcome.

19 DR. MARKS: All right, good. Okay. So  
20 presumably I will be seconding a final report  
21 tomorrow with a conclusion of "safe." Thank you,  
22 Jay. And thanks to the PCPC and Lillian for --

1 DR. GILL: And Ivan.

2 DR. MARKS: And Ivan. Thank you, Ivan.  
3 We don't want to leave you out, Ivan. You've been  
4 silent so far. Feel free to jump in anytime.

5 The next is yarrow, achillea millefolium  
6 derived ingredients. So I assume if Tom were  
7 here, he would let us know. Do you want to press  
8 anymore buttons here, Bob?

9 DR. HELDRETH: Carla said she was going  
10 to email him.

11 DR. MARKS: Oh, okay. So in September,  
12 the panel changed the conclusion for these  
13 ingredients from "safe as used" to "safe as used  
14 when formulated to be non-sensitizing." And that  
15 referenced what you commented on this morning,  
16 Wilma. We don't have -- let's see what -- Ron  
17 Shank had some comments about this, and maybe I  
18 should bring them up. I briefly wrote them down  
19 here. So final amended safety assessment, we have  
20 the draft in front of us. The question is do we  
21 move onto a final.

22 DR. BERGFELD: I think we have to be

1 careful with what we're doing with this  
2 non-sensitizing, that we clearly understand it's  
3 because there's increased sensitivity of these  
4 botanicals, and that they're frequently mixtures  
5 with some what I would consider contaminants.

6 DR. MARKS: Yeah.

7 DR. BERGFELD: And that may increase the  
8 sensitivity.

9 DR. MARKS: That's, of course, covered  
10 in our boilerplate, the final formulation. Let me  
11 mention what Ron Shank and then we'll go back  
12 because I didn't have this in mine, and it wasn't  
13 left over from our September meeting. And let me  
14 make sure I read it correctly. He has  
15 "Manufacturing and impurities for cosmetic grade."  
16 I had that question on another botanical. Can we  
17 say that the same as GRAS, I guess is what Ron was  
18 asking. So let me just take a look and see.  
19 Excuse me.

20 I should ask Carla to probably print out  
21 Ron's. I didn't print it out last night. I think  
22 she was copied. No, maybe this is not the one.



1 This is the second one. There's alumina. Okay,  
2 he has some edits. Conclusion, okay. I had it in  
3 the wrong ingredient. I did that this morning.  
4 So he was also fine as I was.

5 I thought "formulated to be  
6 non-sensitizing," the precedent has been set with  
7 "non-irritating." I think it's a good way to  
8 handle this when we have the potential of multiple  
9 botanicals we know occur. Any other comments?  
10 Otherwise we'll move the final amended safety  
11 assessment. Yeah, Jay?

12 DR. ANSELL: We have an editorial  
13 comment as it relates to Table 3. For some reason  
14 in the NTP conclusion for male rats, the NTP  
15 conclusion, the results for male rats are  
16 italicized, while the results for the female rats  
17 and male and female mice are not. And it suggests  
18 somehow you're pulling this out for specific  
19 reference.

20 DR. BERGFELD: Page 23?

21 DR. ANSELL: Yes, PDF page 23.

22 DR. GILL: No, it was probably just left

1 over from a --

2 DR. BERGFELD: No problem. Thank you.

3 DR. MARKS: Anything else, Jay?

4 DR. ANSELL: No. I mean, we sent a lot  
5 of --

6 DR. MARKS: Yeah, but editorial  
7 comments.

8 DR. ANSELL: -- detailed comments along  
9 to staff, but that was the one we wanted to  
10 mention here in the meeting.

11 DR. MARKS: Okay. Anything else?

12 (No response.)

13 DR. MARKS: If not, then, let me see.

14 Who's going to be presenting this tomorrow? Dr.

15 Belsito presumably. I will be seconding a

16 non-sensitizing conclusion, "safe." Okay.

17 Tom, you're still not on. And Ron Shank

18 -- she emailed him.

19 DR. GILL: She's emailing them. They

20 need to call back in.

21 DR. MARKS: Yeah, okay. Probably trying

22 --

1 DR. ANSELL: You'll hear a "ding."

2 DR. MARKS: Yeah, exactly. I guess the  
3 other could be -- does she have their phone number  
4 rather than email?

5 DR. HELDRETH: I'll have her check.

6 DR. MARKS: Okay, next. Of course, if  
7 we keep at this pace.

8 DR. BERGFELD: We'll be done before you  
9 know it.

10 DR. MARKS: Next is the phytosterols.  
11 And let's see here. We have before us the draft  
12 final report on the safety assessment of the  
13 phytosterols. The conclusion is "safe," and we  
14 can issue a final report with that conclusion.

15 DR. BERGFELD: May I ask Lillian a  
16 question?

17 DR. GILL: Sure.

18 DR. BERGFELD: It has not particularly  
19 to do with this. But when you're writing the  
20 abstract, do you have a format for the abstracts?

21 DR. GILL: Yes. You guys have set up  
22 one.

1 DR. BERGFELD: We have one?

2 DR. GILL: We have the first sentence to  
3 last sentence. The instruction sentence where  
4 we're reviewing and what their functions are. The  
5 conclusion is last. The boilerplate sentence,  
6 "The Panel reviewed relevant animal and human  
7 data."

8 DR. BERGFELD: Okay.

9 DR. GILL: And then anything else is  
10 something that is important that we need to  
11 mention. And we're still at a 150-word limit.

12 DR. BERGFELD: Okay. Now, the reference  
13 to "including results test for estrogenic  
14 effects," all right, I assume that because the  
15 next sentence says it's safe, basically that's  
16 negative statement there, "there are no estrogenic  
17 effects."

18 DR. GILL: Would you like that --

19 DR. BERGFELD: Yeah.

20 DR. GILL: -- finessed a little?

21 DR. BERGFELD: Yeah. I'd like that  
22 sentence a little bit different.

1 DR. GILL: Sure.

2 DR. BERGFELD: Just if that is the truth  
3 of the sentence.

4 DR. ANSELL: Well, and we were  
5 suggesting that, yeah, that it be estrogenic  
6 activity.

7 DR. BERGFELD: Yeah. Okay. Thank you.  
8 Have no estrogen. They did have something in one  
9 of the tests, but it wasn't anything significant.  
10 No significant estrogen.

11 DR. GILL: Relevant?

12 DR. BERGFELD: Relevant, that's good.

13 DR. MARKS: Okay. I don't actually have  
14 Ron's input on this. I can't imagine there's  
15 anything significant from what we already have.  
16 So phytosterols, tomorrow I'll move that we issue  
17 a final report "safe." Any other comments,  
18 Lillian, Jay?

19 DR. HELDRETH: There's a correction with  
20 the CR references.

21 DR. MARKS: Okay. But nothing that  
22 alters the conclusion.

1                   Next is the camellia.

2                   DR. BERGFELD: Wait. Before you go --

3                   DR. MARKS: Oh.

4                   DR. BERGFELD: I'm sorry.

5                   DR. MARKS: No, that's okay.

6                   DR. BERGFELD: It's hard for me. My  
7 fingers are getting numb. Going to your, I  
8 believe it's the summary, and the last two  
9 paragraphs, "There is little or no estrogenic  
10 activity detected in the phytosterols using in  
11 vitro." Little or no, what does that mean,  
12 "little or no?" Relevant? How about using the  
13 word "relevant" there again?

14                   DR. GILL: "No relevant," sure.

15                   DR. BERGFELD: Estrogenic activity is so  
16 important.

17                   DR. MARKS: Yeah, thank you. And I  
18 don't think we have a boilerplate, but I remember  
19 when we had the presentation on the testing for  
20 estrogenic effects where it's really still, I  
21 would say, in the development stage, as I  
22 recollect, the presentation. Okay. It sounded

1       like somebody was --

2                   DR. SLAGA: I'm on. Tom is here. I  
3       just took the American Airlines to Cuba.

4                   (Laughter.)

5                   DR. MARKS: Hey, Tom, before we get into  
6       -- we're already halfway through. And I can  
7       review those for you quickly just so you know what  
8       we did.

9                   DR. SLAGA: Okay.

10                  DR. MARKS: But the prediction tomorrow  
11       is as bad as it was yesterday, two to four inches  
12       of snow, maybe some ice mixed in. So you might  
13       reconsider. What we heard was that you're going  
14       to try and get in tomorrow morning. You may --

15                  DR. SLAGA: Well, the flight gets in at  
16       midnight, but I told them to put it on hold until  
17       I talk to you.

18                  DR. MARKS: Yeah. I would --

19                  DR. BERGFELD: Cancel.

20                  DR. MARKS: Yeah. I'll use Lillian's --  
21       when I talked to her, I was in the middle of a  
22       snowstorm yesterday in Frederick, Maryland. And

1 she said, Jim, do you what you think is best. And  
2 I would tell you the same. Wilma suggests  
3 cancelling. I agree with that. I would second  
4 that. I would just stay home, Tom.

5 DR. SLAGA: Well, we'll do conference  
6 calls.

7 DR. MARKS: We'll do conference call,  
8 yes. Okay. So let me go over, Tom, and actually  
9 I got Ron's. Ron sent a memo, and you may want --  
10 you can do the same if you want, it's up to you.  
11 It was very brief. So for the amino acid alkyl  
12 amides, issue a final report "safe when formulated  
13 to be non-sensitizing." Does that sound good?

14 DR. SLAGA: Yes, Bob. As stated, it was  
15 a good abstract (inaudible) conclusions.

16 DR. MARKS: Great. And then if you have  
17 editorial comments, what Ron is going to do is  
18 send his flash drive to Carla, so you could always  
19 send your flash drive.

20 So the next one -- let me kind of go  
21 down these. The next one, just so you're caught  
22 up. I probably won't do it depending on how far



1 we're along. The alkyl betaines, "safe,  
2 formulated to be non-sensitizing." Ron Shank felt  
3 that was fine.

4 DR. SLAGA: And I totally agree with  
5 that. I have the same thing. The beta group was  
6 fine, okay?

7 DR. MARKS: Polyvinyl alcohols. This  
8 was that review from 1998, and both Ron Shank and  
9 I felt due not reopen.

10 DR. SLAGA: Yeah.

11 DR. MARKS: Okay. Super. And then the  
12 next one is the alumina and aluminum hydroxide.  
13 And if you'll remember, that was tabled to get the  
14 PCPCs, significant edits. That's been done, and  
15 we felt that we could move forward to a final  
16 conclusion as "safe." And Ron Shank was good with  
17 that also.

18 DR. SLAGA: I am, too. That's exactly  
19 what I have.

20 DR. MARKS: Super. Now, the next is  
21 achillea millefolium, and again, issuing a final  
22 amended safety assessment with a conclusion "safe

1       when formulated to be non-sensitizing." Ron Shank  
2       was good with that. Wilma is here with us in the  
3       room.

4                   DR. BERGFELD: Hi, Tom.

5                   DR. SLAGA: Yeah. Hi, Wilma.

6                   DR. BERGFELD: Hi.

7                   DR. MARKS: And Wilma and along with the  
8       support staff here, and Wilma brought it up at our  
9       combined session before we broke out into teams  
10      just to alert to the non- sensitizing. And Wilma  
11      was fine with that also, as is Jay is here also.

12                   DR. SLAGA: There was a comment about to  
13      be "formulated to be non-sensitizing." Is that  
14      correct?

15                   DR. MARKS: Correct. Yeah, that's  
16      correct. That's, of course, in my mind to cover  
17      when you mix a number of botanicals together that  
18      you end up with a final product which is  
19      non-sensitizing.

20                   DR. SLAGA: I totally agree.

21                   DR. MARKS: Okay. Super. You're now  
22      caught up, Tom.

1 DR. SLAGA: Oh, great.

2 DR. MARKS: We heard you earlier.  
3 Somehow we got on the conference call that you had  
4 with American Airlines, so we could hear some of  
5 the difficulty you were having.

6 DR. SLAGA: Right.

7 DR. MARKS: Okay. So let me see. I  
8 have on the screen phytosterols, but I thought we  
9 did that.

10 DR. BERGFELD: We did that.

11 DR. MARKS: Yeah. Final as "safe" with  
12 the phytosterols.

13 DR. ANSELL: Yeah, and I think we were  
14 talking about the sentence "Reviewed relevant to  
15 animal and human data related to these  
16 ingredients, including the results of tests for  
17 estrogenic activity."

18 DR. MARKS: Yeah. Yeah.

19 DR. SLAGA: And I have "safe," too, and  
20 I thought it was a very good report.

21 DR. MARKS: Great.

22 DR. GILL: Thank you.

1 DR. MARKS: So next we're into, I think,  
2 tea leaves, is that right?

3 DR. GILL: Yes.

4 DR. BERGFELD: Now, here I think we  
5 ought to discuss the use of the GRAS data and just  
6 make a decision to use or not.

7 DR. MARKS: And so, this is camellia  
8 sinensis, is that right? I said sinensis. Who's  
9 the botanist in here?

10 DR. ANSELL: Sinensis. Sinensis.

11 DR. MARKS: Sinensis.

12 DR. BERGFELD: Sinensis.

13 DR. MARKS: And then how about is the  
14 first correct, the camellia? Okay. Tea is easy.  
15 These are ingredients derived from green, black,  
16 and oolong tea. And so this is the first time  
17 we've seen this report. You know that, Tom. I'll  
18 bring up Ron's in a second. I think he had a lot  
19 of the same ideas that I did when I looked at  
20 this.

21 So, yeah, the first thing was I had,  
22 Tom, what about the oral tox? There was some

1 question whether we could deal with that.

2 DR. SLAGA: Well, to me, the oral tox,  
3 it's already a GRAS substance, and there's been a  
4 tremendous amount of study saying it's safe, you  
5 know, in drinking. So I thought that the oral  
6 tox, that there was no data needs, and it's "safe  
7 as used."

8 DR. MARKS: Okay. Okay. I'll read what  
9 -- thanks. One of the questions was did we remove  
10 the seed oil. That was in a previous report.  
11 That's a judgment call. It was "safe." And then  
12 the other, of course, do we include the leaf  
13 water. There is a question whether that's a -- I  
14 don't have to bring out my cell phone.

15 DR. SLAGA: I had that down, too, but  
16 until we really know for sure, I'd leave it in.

17 DR. MARKS: Lillian, do you know? Did  
18 we get any clarification whether the leaf water  
19 was a fragrance?

20 DR. GILL: No, we did not.

21 DR. MARKS: So I guess we'll leave it in  
22 at this point, particularly if we're going to come

1 to a "safe" conclusion. If we're going to have  
2 otherwise, then maybe we would defer.

3 How about the seed oil since that was in  
4 a previous report? Would you leave it in or take  
5 it out?

6 DR. SLAGA: Well, it would be nice  
7 having it all combined in one, wouldn't it?

8 DR. BERGFELD: That's what I thought.

9 DR. MARKS: Yeah, I agree. We have  
10 boilerplates on page 13. Here we go. And I think  
11 this is the same that Ron had. I had do we need  
12 the manufacs for cosmetics. That's on page 12 of  
13 their report. We have manufacturing for GRAS, so  
14 let me see. Ron Shank says, "Discussion. Need  
15 method manufacturing of purity data to be certain  
16 that cosmetic grade ingredients are chemically the  
17 same as food grade ingredients." Okay.

18 DR. SLAGA: I agree with that. That's  
19 important. There was no information on that.

20 DR. MARKS: So, Jay, can you comment on  
21 that at all?

22 DR. ANSELL: This would be the

1 relationship between the cosmetic grade and tea  
2 grade.

3 DR. MARKS: Yes, exactly.

4 DR. ANSELL: I have no information on  
5 that.

6 DR. MARKS: Okay. So I guess Ron Shank  
7 has it in a discussion. If we don't have any  
8 data, can we in the discussion handle this? We'll  
9 change the conclusion. And I have some  
10 insufficient data anyway, so we'll get to that in  
11 a minute. So I would put that in one of the  
12 potential needs or at least address. And, Jay,  
13 maybe the PCPC can alleviate that.

14 Lillian, I have in here -- so I'll go  
15 back to Ron Shank says. "It seems that the leaf  
16 and leaf extract would be substantially different  
17 from the extracts of the flower, root, and seed.  
18 This prevents read-across from the compounds and  
19 the toxicity database, the leaf, leaf extract."  
20 So just deleting the following materials: Flower,  
21 root, seed powder, seed extract, seed oils. Of  
22 course we can't remove seed oil if we have a

1 previous report which is safe.

2 What do you think, Tom, about the  
3 read-across?

4 DR. SLAGA: I have no problem with the  
5 read- across.

6 DR. MARKS: Yeah, neither did I. I  
7 didn't put that as an issue also. So what we can  
8 do is when we have the discussion, we'll see what  
9 the Belsito team does. I feel a little lonely,  
10 Tom. I'm the only team member here of our team.  
11 The Belsito team, the only one missing is Dan.

12 DR. SLAGA: But you have lovely Wilma  
13 with you.

14 DR. MARKS: I know, exactly. Wilma was  
15 kind enough to join me so I wouldn't feel all  
16 alone here. So at any rate, we'll bring that up  
17 as a discussion. I have it here in my notes, and  
18 I'll mention that tomorrow. Do we need the  
19 manufacturer for cosmetics.

20 Lillian, on page 12, I have linalool  
21 concentration, 198,000 parts per million. Is that  
22 right? And if it is, that means it's like 19



1 percent of the tea is linalool?

2 DR. GILL: Page 12 of the PDF.

3 DR. SLAGA: Well, the (inaudible) 20 to  
4 30 percent, but I didn't think there was anything  
5 else that high.

6 DR. MARKS: Well, let me see what I have  
7 highlighted. I'll go to that page. Maybe I read  
8 it incorrectly, Lillian. Oh, yeah, there it is.  
9 If you see under constituents of concern.

10 DR. GILL: Yes.

11 DR. MARKS: And if you look under leaf  
12 essential oil, it has 198,400 parts per million of  
13 linalool. So that seems mighty high.

14 DR. ANSELL: Well, we do suggest that  
15 the seed oil be removed from the report for a  
16 couple of reasons, including that it's already  
17 been reviewed, but also that it's --

18 DR. GILL: It's different.

19 DR. ANSELL: It's different, yeah.

20 DR. MARKS: Okay. So that's easy since  
21 it's already been removed. It's interesting.  
22 Since it's different, how do you mean, Jay?

1 DR. ANSELL: Different composition,  
2 triglycerides, than the rest of the ingredients in  
3 the report.

4 DR. MARKS: Okay. Tom, what do you  
5 think about that? It's already been --

6 DR. SLAGA: Yeah.

7 DR. MARKS: Let me see if Ron Shank has  
8 removed them or anything. Yeah, Ron mentions  
9 again page 13, impurities. So let me go back,  
10 Lillian. Do you think it's that high for  
11 linalool? Do you see what I'm looking at, Jay?  
12 Page 12 of the PDF, and it's under "constituents  
13 of concern." It's the first sentence where it has  
14 linalool, and you see under leaf essential oil, it  
15 ranges up to 198,400 parts per million, so  
16 potentially close to 20 percent of the constituent  
17 could be linalool. And I didn't look up under the  
18 fragrance, but, boy, that's very high I would  
19 think. And this is a fragrance sensitizer.  
20 Although when I go back, I'll give you my needs in  
21 a second.

22 So, Lillian, I might ask you to just

1 check that.

2 DR. GILL: I'm doing it now.

3 DR. MARKS: Yes.

4 DR. HELDRETH: I understand the  
5 Council's contention that the seed oil would be  
6 primarily triglycerides, but that doesn't make it  
7 different from all the ingredients in this report.  
8 We also have a leaf oil, and that would be  
9 triglycerides as well.

10 DR. GILL: And this is also the correct  
11 according to the statement.

12 DR. BERGFELD: Which is correct?

13 DR. GILL: The high amounts in the  
14 essential oil.

15 DR. BERGFELD: So you're saying it's the  
16 same.

17 DR. GILL: Right, but this is the plant,  
18 essential oil --

19 DR. BERGFELD: Right.

20 DR. GILL: -- that might be very  
21 different for what they actually use in cosmetics  
22 after processing.

1 DR. BERGFELD: Right.

2 DR. MARKS: Well, we'll be reassured  
3 when we have the sensitization study, so I just  
4 want to be sure that even -- let me see if this  
5 thing will respond here. Oh, good.

6 So let's go back up to the seed oil. So  
7 I have, Tom, you are fine with not having it  
8 included. Ron Shank didn't mention anything.  
9 Jay, you would like it removed because of the  
10 triglycerides, but, Bart, you say the other  
11 ingredients have triglycerides.

12 DR. HELDRETH: At least one.

13 DR. MARKS: Yeah. Would you remove it  
14 just because it's already in another report, Tom?

15 DR. SLAGA: Yeah, I'd remove it.

16 DR. MARKS: Okay. So let me see what  
17 else. Impurities, ocular. So I'll let you,  
18 Lillian, Ron Shank had a question on page 19,  
19 third paragraph under ocular. Which is it, 0.093  
20 or 0.1? But again, that can be -- those are  
21 editorial comments. My concern was the leaf  
22 extract has 1,700 uses, so it's got a lot of uses.

1 The leaf itself is applied to eyelids at 97  
2 percent. So it sounds like what they do is put  
3 the whole leaf there. They probably have little  
4 else.

5 So I felt we needed an HRIPT on both of  
6 these at use concentration. So the extract has  
7 used up to three percent, and then I wanted to see  
8 leaf meet HRIPT. And what we have now is we don't  
9 have HRIPT at those concentrations. So I would  
10 put it as an insufficient data announcement with  
11 the needs of the HRIPT on the leaf extract and the  
12 leaf --

13 Ron Shank didn't mention that, Tom.

14 DR. SLAGA: I didn't have any -- I would  
15 go with the -- it's the first time.

16 DR. MARKS: Yeah, exactly, and this is  
17 just an announcement. This is not an insufficient  
18 data.

19 DR. SLAGA: Right. I would go with  
20 that.

21 DR. MARKS: Okay. Wilma, do you have  
22 any comments? I don't know whether you noticed

1           that when you reviewed it.

2                     DR. BERGFELD: I wrote and said it needs  
3           irritation and sensitization.

4                     DR. MARKS: Yeah, which would be gotten  
5           with the HRIPT.

6                     DR. BERGFELD: Yeah, right.

7                     DR. MARKS: Okay. So let me see. Who  
8           does this tomorrow? It'll Don, and we'll see how  
9           that works out. But right now, we'll remove the  
10          seed oil. We'll leave the water in for the time  
11          being. I'm going to call it now the botanicals  
12          boilerplate because that includes pesticides,  
13          metals, and aflatoxin. We need the method of  
14          manufacture, or we need the method of manufactures  
15          for cosmetics addressed.

16                     And then it looks like the linalool  
17          concentration actually is 19 percent based on  
18          that.

19                     DR. GILL: So maybe needs method of  
20          extracting that.

21                     DR. MARKS: Yeah. Yeah, exactly. And  
22          then the HRIPTs. Okay.

1 DR. BERGFELD: What are you going to do  
2 about the use of the GRAS food data? Are you  
3 going to from this team say you accept it?

4 DR. MARKS: Yes.

5 DR. BERGFELD: Okay.

6 DR. MARKS: I go with Tom. Tom said --

7 DR. BERGFELD: You have to say that, I  
8 think.

9 DR. MARKS: Okay. Let me put that up  
10 here.

11 DR. BERGFELD: The aflatoxins that are  
12 described in the impurity data, you're just going  
13 to put the boilerplate in to cover that.

14 DR. MARKS: Yes. Yeah.

15 DR. BERGFELD: Okay.

16 DR. MARKS: Oil tox, okay. Where am I?  
17 Thank you, Wilma.

18 DR. BERGFELD: Now, I was quite taken  
19 with the fact that if you drink too much of this  
20 tea, you can have liver damage.

21 DR. GILL: Yeah.

22 DR. MARKS: Okay. So I guess the moral

1 to that story is don't drink it or put it on your  
2 skin, or don't drink too much. Like everything  
3 else it's in moderation.

4 DR. BERGFELD: Well, people drink a lot  
5 of black tea.

6 DR. MARKS: Yeah, exactly. It's in  
7 moderation. Okay, Tom, does that sound good to  
8 you?

9 DR. SLAGA: Yeah. When I'm drinking tea  
10 and it drips on my skin, it kind of hurts.

11 (Laughter.)

12 DR. MARKS: So I'm going to put here  
13 oral tox, using that is okay. Remove the seed  
14 oil. We still don't know about the leaf water,  
15 the boilerplate, the manufacture of cosmetics. It  
16 looks like there's a high linalool concentration,  
17 and I'll see what Don's team says. And then the  
18 irritation sensitization and HRIPT on the leaf  
19 extract, the highest use, three percent, and on  
20 the leaf.

21 Okay. Any other comments?

22 DR. SLAGA: No.



1 DR. MARKS: Good. Thanks, Tom. Thanks,  
2 Lillian.

3 DR. GILL: You're welcome.

4 DR. MARKS: Okay, let's see. They make  
5 quite a few comments, so I'm going to give you  
6 this. This is Ron Shank's. Oh, good. You have  
7 it.

8 DR. GILL: He made copies.

9 DR. MARKS: So next is hydroquinone and  
10 para-hydroxyanisole. Is David here? Good,  
11 because this is interesting, hydroquinone. Let me  
12 bring that up.

13 So this is a draft report that Lillian  
14 put together as used in nail products. It's  
15 interesting. So let me go back here. In March  
16 there was a request to amend the 2010 conclusion  
17 to include the use of nail polishes that require  
18 UV curing with these ingredients. As you remember  
19 we reopened it to evaluate the safety of these  
20 ingredients in UV nail adhesives.

21 Hydroquinone was found to be safe in  
22 2010 was the most recent report.

1 Para-hydroxyanisole was found to be unsafe in 1985  
2 because of its de-pigmenting toxicity of the skin.  
3 Interestingly, the most recent wave, Wave 2, there  
4 are no reported uses for these ingredients, so the  
5 question is do we reopen it.

6 I actually had reviewed it and had the  
7 irritation sensitization UV ultraviolet light was  
8 okay was nail use. That was on page 22, 25. I  
9 felt we could amend it with a "safe." The  
10 hydroquinone conclusion would be the same, but the  
11 para-hydroxyanisole in the conclusion would be  
12 "safe only in nail products." And then I had some  
13 questions a little bit, Lillian, about the format.

14 But at any rate, if it's being used,  
15 then do we need to reopen? And Ron Shank felt  
16 that Wave 2 states no uses, so don't reopen. So,  
17 David, do you have data that the PCPC doesn't have  
18 --

19 DR. ANSELL: It's being used extensively  
20 --

21 SPEAKER: Didn't we agree to reopen it  
22 at the last meeting?

1 DR. BERGFELD: Yeah, I think so.

2 DR. MARKS: Well, we agreed to reopen  
3 it, but if you remember, the reopening is, and we  
4 can always shut it again so we don't have to  
5 reopen it if we find as we go through the  
6 reopening and analyzing, we could go back and say,  
7 and remember it should be a non-brainer if we  
8 reopen on.

9 DR. ANSELL: Well, I think the question  
10 on the table then would be do we close it since we  
11 have reopened it.

12 DR. MARKS: Yes, okay. Okay, thank you,  
13 Jay. You're being very, how do I want to say,  
14 precise in the terminology. So thank you.

15 So the question is do we close it. So,  
16 Lillian, you were going to say something.

17 DR. GILL: I will point out that are  
18 uses in the BCRP.

19 DR. MARKS: Pardon?

20 DR. GILL: There are uses in the BCRP,  
21 involuntary reporting to the FDA.

22 DR. MARKS: Oh, there are uses?

1 DR. GILL: Yes. And on page 19 --  
2 nobody reported any to the Council, but they did  
3 report to the FDA that there are uses.

4 DR. MARKS: Okay, so there are uses.

5 DR. GILL: Seven nail extenders and 11  
6 skin preparations. No uses were reported for the  
7 hydroxyanisole.

8 DR. MARKS: None for the  
9 para-hydroxyanisole.

10 DR. GILL: Right.

11 DR. MARKS: So I'm glad I read the  
12 report before I saw Wave 2 because I would've said  
13 why are we spending more time.

14 So with that in mind that there are  
15 uses, so there are uses for the hydroquinone, the  
16 para-hydroxyanisole. At least in the database we  
17 don't have uses, but, David, you feel they are  
18 being used in nail adhesives?

19 SPEAKER: Not nail adhesives. Well,  
20 they could be used in nail adhesives. The main  
21 thing is the nail polish.

22 DR. MARKS: Okay.

1                   SPEAKER: MEHQ, which is how (inaudible)  
2           is the preferred polymer inhibitor industrially,  
3           and you could go back to your 85 conclusions.  
4           It's cited that its big use in industry where  
5           they're taking acrylic acid or anything thereof,  
6           and inhibiting polymerization until you get  
7           polymerization.

8                   We have in, with maybe the only  
9           exception being the adhesive use, up until a few  
10          years ago, we never sold monomers to consumers.  
11          So it was never considered an ingredient, and  
12          what's happened is technology has changed, and the  
13          most important thing that has happened is the use  
14          of the gel nail polishes which are cured by light.  
15          And these are safe and are being used by  
16          consumers. So the issue is now we have an  
17          inhibitor that's in the raw material. We do not  
18          put it in. This how the raw material is purchased  
19          from your large chemical companies, and it has to  
20          be there.

21                   And the polymerization process destroyed  
22          the inhibitor. That's how polymerization takes

1 place. And so the question came back that we had  
2 an unsafe report from 1985 and then now we're  
3 using it safely in nail polishes right now, the  
4 gel nail polishes.

5 DR. MARKS: Right. Okay.

6 SPEAKER: So that's why we requested it  
7 to be reopened for that specific use.

8 DR. MARKS: Tom, did you hear all that?

9 DR. SLAGA: Yeah, and I agree with  
10 David. This is completely different, and I'd just  
11 leave it in as "safe as used."

12 DR. MARKS: So the way I had it we would  
13 issue -- it open, as Jay pointed out. Now hearing  
14 this, I have a feeling Ron Shank wouldn't say do  
15 not reopen, or he would say do not close. And I  
16 would propose -- let's see, who's presenting  
17 tomorrow? Oh, I am. That we issue an amended  
18 report, so this would be what, Lillian, a  
19 tentative amended report with hydroquinone, the  
20 same conclusion because that was found to be safe.  
21 And the amended would be para- hydroxyanisole as  
22 "safe only in nail products," as used.

1 Tom, do you have any problems with that?

2 DR. SLAGA: I do not.

3 DR. MARKS: Okay.

4 DR. BERGFELD: I don't either. That's  
5 what I put.

6 DR. MARKS: Good. Thanks, Wilma. And  
7 we'll get Ron Hill and Ron Shank's input, but I  
8 have a feeling. Now, and I think one of the  
9 things that's reassuring to me, David, is, as you  
10 said, these gels. I have not seen any case  
11 reports, and you didn't find any, Lillian, in the  
12 literature of periungual de-pigmentation of using  
13 this in these gels. So that's reassuring, plus I  
14 suspect it is all used up very quickly once the  
15 polymerization begins.

16 SPEAKER: Right. And the other thing is  
17 the instructions, and these are the critical  
18 safety issues as far as I was concerned was what  
19 happens if the woman accidentally puts the gel on  
20 her skin. Well, the gels are very (inaudible).  
21 It falls off. It's removed. And you don't want  
22 to have nail polish on your skin. So it's quickly

1 removed.

2                   The other thing is what happens is it  
3 gets on the cuticle, and the instructions are very  
4 clear that you can't have it on your cuticle  
5 because when it cures, what will happen is the  
6 cuticle will cause the gel to (inaudible) like  
7 this instead of like this, which is not very  
8 satisfactory with nail polish. It'll just come  
9 off. So there are common sense reasons why it's  
10 just avoid skin contact. And one of the reports  
11 says is what happened with the cuticle and the  
12 nail --

13                   DR. BERGFELD: I think that should be  
14 included in the discussion.

15                   DR. MARKS: Exactly, Wilma. So could  
16 you summarize that in a couple of sentences,  
17 David, and give it to Lillian so it can appear in  
18 the discussion? I think that's --

19                   SPEAKER: Sure. Yeah, I believe that we  
20 have in my report, but I'll be glad to --

21                   DR. MARKS: And then, Doug, are you from  
22 the --



1                   SPEAKER: I'd like to introduce some  
2                   people who -- and Doug is with the (inaudible).  
3                   Sunil is with OPI, one of the largest producers.  
4                   Larry, who just came in, is with Keystone  
5                   Laboratories. They are one of the largest  
6                   manufacturers of these gels for the industry. And  
7                   Kevin works for Larry. So there are all experts  
8                   in the world in this type of technology here to  
9                   answer any of your questions.

10                  DR. MARKS: Yeah, I recognize Doug from  
11                  the phthalate discussions in the past.

12                  DR. BERGFELD: And before.

13                  DR. MARKS: So any comments that you  
14                  have? I want to be sure that we capture this,  
15                  David. It sounds like you've summarized it very  
16                  well. You've been quiet, Doug, or your colleagues  
17                  there.

18                  DOUG: I think the only thing I would  
19                  add is these products are educated for use by  
20                  professionals, and they're educated to avoid skin  
21                  contact. So they understand it's important to  
22                  avoid skin contact for one reason -- for the

1 reasons Dave has pointed out. But the product  
2 will lift and come up if they do touch the skin.  
3 It'll separate from the nail because oils can go  
4 underneath the coating. So the skin contact is  
5 avoided.

6 DR. MARKS: Good. Tom and Wilma?

7 DR. SLAGA: Yes?

8 DR. MARKS: How did you like the format  
9 of this? If we're going to send an amended  
10 report, Lillian did a lot of, I guess, summary  
11 sections. Wilma, how do you -- I mean, Lillian,  
12 how do you want to -- let me see. I'll go on page  
13 15, and it says "summaries of the hydroquinone  
14 safety assessments." Do you like the -- first,  
15 there's '86, then '94, and then 2010. And it's  
16 kind of interesting, you know, when you normally  
17 think of a final report it has section and not a  
18 whole bunch of summaries in there. So I just  
19 wanted to bring that up and make sure that was  
20 fine for an amended report.

21 DR. BERGFELD: Well, as long as you  
22 refer back to the references, and I just went back

1 to look at them, and it's under reference two,  
2 three, and four, and actually five, and six. So  
3 you do have those references. But why do  
4 references two and three have no authors?

5 DR. GILL: Because that's the way they  
6 originally published them, Allen as the editor.

7 DR. BERGFELD: That wasn't the original.  
8 That was the second wave of change.

9 DR. GILL: Yeah.

10 DR. BERGFELD: Is there a reason? I  
11 mean, that looks sort of funny --

12 DR. GILL: He's technically the editor.  
13 We have put him as the author. We can go either  
14 way.

15 DR. BERGFELD: Yeah, I think you ought  
16 to have somebody there. You've got Anderson  
17 (inaudible) if that was the case.

18 DR. MARKS: Yeah. Anything else, Wilma,  
19 that you --

20 DR. BERGFELD: I thought the summaries  
21 were fine. As long as these references were  
22 there, that's why I went back to check them, and

1 we asked that question.

2 DR. MARKS: Tom, were you fine with  
3 them?

4 DR. SLAGA: I thought the summaries were  
5 good. It really brought me up to speed.

6 DR. MARKS: And then if an individual  
7 wants to go back to the original report, they can.

8 DR. GILL: Correct.

9 DR. MARKS: And what you added, Lillian,  
10 was just essentially updates when you went in the  
11 irritation sensitization and such that weren't in  
12 the originals.

13 DR. GILL: Correct.

14 DR. MARKS: So, good. I just wanted to  
15 be sure that we were okay with the formatting.

16 DR. BERGFELD: I think when you present  
17 it, you should that, too, because that may be  
18 (inaudible) of the group. I mean, when we're  
19 introducing it, somewhere you just say something  
20 about the format being --

21 DR. MARKS: Okay.

22 DR. BERGFELD: That would be good.

1 DR. GILL: When I originally put them  
2 in, it was mostly for your context.

3 DR. BERGFELD: But everybody else is,  
4 too, that reads it. But the references are key to  
5 match up with it.

6 DR. MARKS: Okay.

7 DR. ANSELL: We do have a comment that  
8 within the discussion of dermal penetration,  
9 dibutyl phthalate is selected as a surrogate.  
10 It's not exactly clear why. And we'd like to see  
11 at least some discussion as to why we think that's  
12 an appropriate surrogate for dermal penetration.

13 DR. SLAGA: Yeah, I had the question. I  
14 couldn't come up with why it should be a  
15 surrogate. Hello?

16 DR. MARKS: Oh, we hear you. I was  
17 waiting for David or Doug to comment or his other  
18 two colleagues about that.

19 DR. SLAGA: Okay.

20 SPEAKER: It's very difficult to get  
21 anything to penetrate the nail. If we could get  
22 things to penetrate the nail, there are a lot of

1 diseases or nail conditions that we could treat,  
2 which we just do by oral ingestion that  
3 (inaudible) satisfactory. And one of the studies  
4 that was done, which was in terms of looking at  
5 the safety of dibutyl phthalate, which was a  
6 plasticizer for normal nail polishes, showed how  
7 difficult it was to even get something like  
8 dibutyl phthalate to penetrate the nail. So that  
9 was published in a paper and just shows, you know,  
10 we just can't get things through the nail.

11 DOUG: Even when penetration answers  
12 (phonetic) are mixed in with the ingredients it's  
13 difficult to get penetration. So without them,  
14 it's insignificant.

15 DR. BERGFELD: Is that documented  
16 somewhere?

17 DOUG: I'm sorry?

18 DR. BERGFELD: Documented somewhere? Is  
19 there a reference we could have for that?

20 DOUG: The paper?

21 DR. BERGFELD: Yeah, or the absorption  
22 which you just said. I mean, it's an

1 understanding that you have because you've tried,  
2 but has anyone written --

3 SPEAKER: The penetration paper is  
4 published.

5 DOUG: Well, and there are also  
6 published reports from dermatologists who have  
7 developed antifungal compounds for the nail plate  
8 to get these antifungal ingredients into the nail  
9 plate to use penetration enhancers. And even when  
10 they do that, there's like an eight percent  
11 efficacy rate. It's so low. And they cite the  
12 lack of penetration of the nail plate as the  
13 reason.

14 DR. BERGFELD: But no one officially has  
15 done it. I mean, these are clinical studies? Do  
16 they not have any basic science about their  
17 absorption through the nail plate like they do  
18 with skin?

19 DOUG: Yes, there are. There are  
20 studies. I can't cite them right now, but they do  
21 exist.

22 DR. GILL: If you can send me one, I'd

1 be glad to stick it in.

2 DR. BERGFELD: That would be -- we think  
3 it's good to have a document and source.

4 DR. MARKS: Lillian, where exactly in  
5 this document does it have the previous conclusion  
6 for hydroquinone as "safe?" Can you find that for  
7 me? I was looking for it because tomorrow if I  
8 say, hey, our conclusion is "safe." Were there  
9 any caveats to that safety with hydroquinone or  
10 was it just "safe as used?" Oh, hydroquinone was  
11 safe at a concentration of less than one percent  
12 for cosmetic formulations, designed for  
13 discontinuous brief use followed by rinsing from  
14 the skin and hair. Hydroquinone is safe for use  
15 in nail adhesives in the private practice.  
16 Hydroquinone should not be used in other leave-on  
17 cosmetic products. So that was the conclusion in  
18 2010. That's page 15, so I'll reference that.  
19 It's page 15 right above the summaries of the  
20 hydroquinone safety assessments. Do you see that,  
21 Wilma and Jay?

22 DR. BERGFELD: I picked it up out of the



1 article.

2 DR. MARKS: Yeah.

3 DOUG: The other thing to consider, if I  
4 might add, is that once these materials polymerize  
5 on the nail plate and solidify, now you're looking  
6 at just the fusion from a solid coating into the  
7 nail plate, which even further slows the  
8 penetration.

9 DR. MARKS: Okay. Page 18, okay. Tom,  
10 any other --

11 DR. BERGFELD: Do you have any data on  
12 the UV damage to the nail bed after this  
13 polymerization?

14 DOUG: You're talking about the safety  
15 of the UV nail lamps. Yeah, there's actually  
16 three studies that have been performed on the  
17 safety of these (inaudible). But I can send you  
18 that information.

19 SPEAKER: There's one in here --

20 DOUG: There's a Brown University study.  
21 And there was also a study by Dr. Robert Sayer  
22 studying these lamps through using RP-27 ANSI

1 Standard, and all the conclusions that they're  
2 safe, that there's very little risk. And David is  
3 going to get you that information.

4 DR. BERGFELD: Okay.

5 DOUG: So we think there's pretty strong  
6 evidence that these lamps are safe.

7 DR. MARKS: Yeah. That was documented  
8 in there. Okay. Tom, any other comments?

9 DR. SLAGA: That's all I have.

10 DR. MARKS: So tomorrow I'll recommend  
11 or I will move that a tentative amended report  
12 with the 2010 conclusion of hydroquinone be  
13 reaffirmed, and that we change para-hydroxyanisole  
14 from unsafe to safe in nail use only. Does that  
15 sound good?

16 DR. SLAGA: Sounds good.

17 DR. MARKS: Okay.

18 DR. GILL: Question. In the discussion,  
19 you won't mention the nail lamps at all.

20 DR. BERGFELD: I think so. What do you  
21 think? I think just to clarify that because every  
22 dermatologist or someone in clinical medicine will

1 ask that.

2 DR. MARKS: Okay. Any other comments?

3 (No response.)

4 DR. MARKS: Next is the sulfonates.

5 Huh?

6 DR. BERGFELD: Sulfonates.

7 DR. MARKS: So this is a re-review. In  
8 '98, the Panel found that sodium alpha-olefin  
9 sulfonate was safe as used in rinse-off products  
10 and safe up to two percent in leave-on products.  
11 The concentration at gamma sultone impurities of  
12 any formulation be leave-ons or rinse-off is  
13 limited. The alkane sultones limited, and the  
14 chloro sultone is limited. That's in the first  
15 paragraph there.

16 So it's a pretty lengthy conclusion.  
17 The impurities, the limitation was because they  
18 were sensitizer. So the question is, let's see  
19 what --

20 DR. ANSELL: Do we reopen?

21 DR. MARKS: Yeah, do we reopen?

22 DR. BERGFELD: I said yes.

1 DR. MARKS: I have reopen safe and  
2 formulated to be non-irritating, and continue  
3 those limits on impurities.

4 DR. BERGFELD: We had increased  
5 concentrations, increased use, and a request to  
6 add some salts.

7 DR. MARKS: Yes.

8 DR. BERGFELD: I thought we added, we  
9 reopen.

10 DR. MARKS: Oh, yeah, have to. So let  
11 me see. Tom, what did you feel?

12 DR. SLAGA: I felt that we didn't need  
13 to reopen them.

14 DR. MARKS: You did not feel to reopen.  
15 Okay. Let me see. I was with Wilma feeling that  
16 we could reopen to go to a non-irritating  
17 conclusion, but --

18 DR. SLAGA: Even for the leave-on?

19 DR. MARKS: Yeah. Let me take a look  
20 here. No additional ingredients were identified  
21 that might be added. So, see, no --

22 DR. BERGFELD: I thought it said salt.

1 DR. MARKS: No additional.

2 DR. ANSELL: Yeah. It's our  
3 recommendation that this not be reopened.

4 DR. MARKS: Let me take a look here. I  
5 had a question mark -- reopen. Let me see what --  
6 "New data don't present any new information. Use  
7 in leave-ons as now. In order of magnitude,  
8 greater the limits set by CIR." This is Ron  
9 Shank. "If report is reopened, then the  
10 conclusion should be changed to 'formulated to be  
11 non-irritating.' Remove the two percent leave-ons,  
12 Table 2." So I could go --

13 DR. BERGFELD: Either way.

14 DR. MARKS: -- either way. No reopen.  
15 Ron says if reopened, then formulate to be  
16 non-irritating, that's right. The previous  
17 conclusion, leave-on safe to two percent, there's  
18 new use for the C-14, 16. Leave-ons is 13 percent  
19 now, but the new ECHA guinea pig max is okay up to  
20 25 percent. So irritation or sensitization wasn't  
21 an issue with me.

22 DR. ANSELL: Well, you know, we think

1 the current conclusion continues to be  
2 appropriate. There's really no data. If someone  
3 is using it significantly outside that, that  
4 that's not justification to reopen. That's a  
5 justification for them having data substantiating  
6 the safety outside of the CIR conclusions. So  
7 it's our suggestion that this not be reopened.

8 DR. MARKS: Interesting.

9 DR. SLAGA: I don't see any reason to  
10 reopen it just to add "non-irritating."

11 DR. BERGFELD: I would not either, only  
12 if the salts were involved, and I thought they  
13 were --

14 DR. MARKS: No, they are not. Okay. So  
15 not reopen. Lillian, this is an editorial. In  
16 Table 8, if you're going to include that in the  
17 re-review summary, I'd have it that's it from  
18 ECHA, and it's referring to C-14 and 16, I think  
19 if I read that correctly.

20 DR. GILL: Okay.

21 DR. ANSELL: And we have the same  
22 comment about citing ECHA as an author.

1 DR. MARKS: Yeah.

2 DR. BERGFELD: Your comment is to cite  
3 them as an author or --

4 DR. ANSELL: No, no, that it's  
5 inappropriate to cite them as an author. Yeah.

6 DR. BERGFELD: Okay.

7 DR. MARKS: Okay.

8 (XXXTRACK 2XXX)

9 DR. MARKS: For some reason my computer  
10 is actually pretty well today. So interesting,  
11 Jay. Even though there's data in the ECHA guinea  
12 max that it's okay up to 25 percent, we would  
13 expect what the manufacturer is using at greater  
14 than two percent to come forward and say we want  
15 it reopened, and this is the data, the reason why.

16 DR. ANSELL: Yeah.

17 DR. MARKS: Yeah. Okay. So let's see.  
18 Who presents that tomorrow? It will be me, and I  
19 will move not to reopen this re-review. Any other  
20 comments, Tom, Wilma?

21 DR. SLAGA: No.

22 DR. MARKS: Good. Okay.

1 DR. SLAGA: A minor editorial, but --

2 DR. MARKS: Okay. Great. Next is the  
3 re-review summary of iodopropynyl butylcarbonate.  
4 And Lillian is going to -- I assume this is  
5 Lillian Gill, not Lillian -- and Ron Shank felt  
6 the report was okay, no changes. He thought it  
7 was fine. Tom, did you have any comments?

8 DR. SLAGA: I'd say no changes.

9 DR. MARKS: Okay. And that was in the  
10 administrative portion of the report we have.  
11 Okay.

12 DR. ANSELL: We had a comment concerning  
13 the reference for the .01 percent.

14 DR. MARKS: Okay. You'll take care of  
15 that one.

16 DR. ANSELL: Yeah.

17 DR. MARKS: Okay. Next I have on my  
18 agenda, infant skin, but we will defer that until  
19 after we have the presentation right after lunch  
20 by Elias and Williams. Let's see --

21 DR. SLAGA: Where is Elias and Williams?

22 DR. BERGFELD: They're in San Francisco,



1 I believe, and they're married.

2 DR. MARKS: That's correct. Yeah,  
3 they're in San Francisco.

4 DR. BERGFELD: And they're at the  
5 University of California.

6 DR. MARKS: And they're going to be  
7 commenting from afar actually. They're going to  
8 be telephoning in, so this is going to be  
9 interesting. I don't know how. Tom, you'll be  
10 able to hear them when they call in, too. So  
11 that'll be good.

12 There were a number of comments. Again,  
13 we'll go back to that. There were a number of  
14 comments that the Council had, which I thought  
15 were good. So, Ivan, I know in the next edition  
16 of this document, you'll be taking those in  
17 consideration. We'll have Elias and Williams'  
18 input. And the one input -- here, I'll give you  
19 this -- that Ron Shank had one or two.

20 DR. BOYER: And we have confirmation  
21 that Peter, Dr. Elias is going to talk with us.

22 DR. MARKS: Oh, okay.

1 DR. BOYER: We don't know yet whether  
2 Mary is going to be joining him.

3 DR. MARKS: And my understanding, and,  
4 Wilma, you can correct me. Mary was Peter's  
5 student.

6 DR. BERGFELD: I think so, yes.  
7 Long-time marriage, though.

8 DR. MARKS: Oh, yes.

9 DR. BERGFELD: Thirty-five years.

10 DR. MARKS: Okay. That's just for  
11 informational purposes. So next I have was  
12 *rosmarinus officianalis*, rosemary.

13 DR. BERGFELD: Insufficient.

14 DR. MARKS: So, you're already -- did  
15 you hear Wilma, Tom? She's already taken the  
16 thunder out of this. Wilma said "insufficient"  
17 over there. We saw the first report of this in  
18 September. We gave an insufficient data  
19 announcement, and the memo from Monice -- is  
20 Monice here?

21 DR. HELDRETH: She's not.

22 DR. MARKS: So, Bart, are you going to

1 go ahead and take care of this?

2 DR. HELDRETH: Yes.

3 DR. MARKS: At any rate, there were four  
4 needs requesting to follow the dermal  
5 sensitization. We did not get that, so we're  
6 going to have to move forward obviously with an  
7 insufficient conclusion. The chemical  
8 characterization of the flower, the deodorizing  
9 process, and the issue of pregnancy, which was in  
10 the PDR. Ron Shank also felt insufficient, "Need  
11 to have human skin sensitization for the leaf  
12 extracted, 10 percent." And the other three  
13 items, apparently he was not concerned about.

14 DR. BERGFELD: I think we got the  
15 fourth.

16 DR. MARKS: Did we get the fourth?

17 DR. BERGFELD: There was some mention of  
18 it in the text.

19 DR. ANSELL: Yeah.

20 DR. SLAGA: Yeah.

21 DR. BERGFELD: So we didn't get one  
22 through three.

1 DR. SLAGA: -- the first one (inaudible)  
2 that I have a concern. The rest of it can be  
3 done.

4 DR. MARKS: Okay. Good, Tom. And I  
5 think we're all on the same page then is that we  
6 need 10 percent thermal sensitization for leaf  
7 extract. And the reasoning is that is that  
8 undiluted leaf extract is a sensitizer. So at  
9 what level is this a non-sensitizer?

10 DR. BERGFELD: What is the threshold?

11 DR. MARKS: Yeah, what's the threshold?  
12 Yeah?

13 DR. ANSELL: We can have sensitization  
14 data at lower concentrations.

15 DR. MARKS: Right, but not even close,  
16 0.2 percent. This is being used up to 10 percent.

17 DR. ANSELL: So we would find it  
18 appropriate to set up a limit to exclude the 10  
19 percent, "safe as used."

20 DR. SLAGA: I mean, we could set it at  
21 two percent.

22 DR. MARKS: Yeah, we've done that

1 before.

2 DR. ANSELL: Yeah.

3 DR. MARKS: Yeah, okay. Interesting.

4 So we could move --

5 DR. BERGFELD: We have two options.

6 DR. MARKS: Yes. And for some reason I  
7 didn't think of that second option.

8 DR. ANSELL: Well, we have reached out  
9 to the company, and they are not going to do live  
10 data.

11 DR. BERGFELD: Okay, so that's good.

12 DR. ANSELL: So we would just as soon  
13 proceed.

14 DR. BERGFELD: Proceed. That we should  
15 include in the comments that the company has not  
16 responded. Not only not responded, but they  
17 haven't --

18 DR. ANSELL: The data is not available.

19 DR. BERGFELD: The data is not  
20 available. Requested, but not available.

21 DR. ANSELL: The request and their  
22 response really doesn't go to the question of

1           whether it's safe or not.

2                     DR. BERGFELD: That has nothing to do  
3           with that. It has to do with the data lacking.  
4           We've made a request. There's been no response,  
5           and we're proceeding with what we have. That's  
6           what I'm trying to say. But I think you have to  
7           present it that way because otherwise you'll hang  
8           out for that 10 percent.

9                     DR. MARKS: Well, that'll be in the  
10          discussion. Well, you know, it's interesting  
11          because we haven't done it before. We just say  
12          this is the limit.

13                    DR. BERGFELD: This is all the data we  
14          have.

15                    DR. MARKS: And this is the data we  
16          have. And then if anybody wants to come forward  
17          with the 10 percent, they can.

18                    DR. BERGFELD: At this point, it went  
19          out as an insufficient data announcement, did it  
20          not?

21                    DR. MARKS: It went out as an  
22          insufficient data announcement. We can now issue

1       it as a tentative report with "safe," with  
2       concentration of 0.2 percent. There we go. Thank  
3       you, Jay. Tom, does that seem reasonable to you?  
4       Am I correct? That's what I have highlighted, the  
5       0.2 percent of the leaf extract.

6               DR. SLAGA: I have down insufficient at  
7       10 percent, but could be safe at 50.

8               DR. BERGFELD: Right.

9               DR. MARKS: Okay.

10              DR. HELDRETH: So safe as used except  
11       for the leaf extract, 0.2.

12              DR. MARKS: Yeah. Let me see who it is  
13       tomorrow. Belsito will be the one, I believe,  
14       who's presenting it, but I will either second or  
15       propose a counter motion that we issue a  
16       tentative, so it would be a tentative report with  
17       a conclusion "safe with a concentration of 0.2  
18       percent" for the leaf extract.

19              DR. BERGFELD: And that was 0.2 or --

20              DR. MARKS: 0.2. Yeah, it's in the --  
21       let me see. It's in the last paragraph of the  
22       memo from --

1 DR. BERGFELD: Yeah.

2 DR. MARKS: I'm making some notes on my  
3 computer. Tom, I'm making a couple of changes to  
4 my notes in the computer, and this is not as --  
5 how do I want to say -- not as easy as just using  
6 a pen or pencil and paper. Bart?

7 DR. BERGFELD: My finger is sore, Tom.  
8 Could we look at the abstract when you're done  
9 then?

10 DR. MARKS: Sure. Abstract, that's what  
11 page?

12 DR. BERGFELD: That is, it looks like  
13 it's 24.

14 DR. MARKS: Twenty-four.

15 DR. BERGFELD: Uh-huh.

16 DR. MARKS: Okay, abstract.

17 DR. BERGFELD: It appears to me it's  
18 (inaudible). There are just a bunch of phrases in  
19 here.

20 DR. MARKS: I just want to go --

21 DR. BERGFELD: So you'll have to put in  
22 the limitations that you're adding.



1 DR. MARKS: Yes. Yeah, that last  
2 sentence in the abstract is -- Tom, we're looking  
3 at the abstract. Wilma made the comment that it  
4 looks like it's a little maybe skimpy. I'll use  
5 that word.

6 DR. BERGFELD: Well, they have a word  
7 restriction. I guess that could be with the  
8 correction of what you just did with the  
9 restricted concentration.

10 DR. MARKS: Yeah, you can see.

11 DR. BERGFELD: "Drug formulations may  
12 contain more than one botanical. The caution is  
13 there to avoid reaching levels of toxicity for  
14 constituents. So you should good (inaudible) to  
15 limit impurities." Why would that last sentence  
16 be there?

17 DR. MARKS: That's from the botanical  
18 boilerplate.

19 DR. BERGFELD: Yeah, but why would that  
20 be in the abstract?

21 DR. MARKS: That's because we have that.  
22 There's a portion that goes on the abstract, a

1       portion that goes in the conclusion.

2                   DR. BERGFELD: We said that in each one?

3                   DR. MARKS: Yes.

4                   DR. BERGFELD: I hadn't seen that.

5                   DR. MARKS: Well, I think it's just  
6 we're coming down to perhaps the final edition of  
7 the botanical boilerplate. And we'll go over  
8 that. It's a little later on in the agenda.

9                   DR. BERGFELD: When you say "toxicity of  
10 constituents," what do you incorporate in that  
11 terminology?

12                   DR. HELDRETH: (Inaudible) cognitive  
13 effect from other botanicals.

14                   DR. BERGFELD: It includes  
15 sensitization?

16                   DR. MARKS: Uh-huh.

17                   DR. BERGFELD: I mean, that would be  
18 called a toxic effect?

19                   DR. MARKS: Uh-huh. Yeah, that's  
20 actually, as I recollect, in the boilerplate, it  
21 would be perhaps two or three significant  
22 constituents that you're concerned about the

1 toxicity, and it'll actually name the constituents  
2 and the toxicity.

3 DR. ANSELL: They really are separate  
4 statements. The fact that a botanical is a  
5 complex mixture is different than the materials  
6 when they have an impurity, because they're not  
7 impurities. They're constituents.

8 DR. BERGFELD: Right.

9 DR. ANSELL: So whether we need to carry  
10 it into the abstract or not, I don't know. But it  
11 really is a very separate thought. You know, in  
12 one case we're talking about impurities. In the  
13 other case, we're reminding people that --

14 DR. BERGFELD: Yeah. I don't think it  
15 belongs here.

16 DR. ANSELL: Yeah.

17 DR. BERGFELD: I think it belongs in the  
18 discussion.

19 DR. MARKS: Well, let's wait until we  
20 get the boilerplate. And this is the specific  
21 application, but let's hold that thought for the  
22 boilerplate.

1 DR. BERGFELD: Okay.

2 DR. MARKS: Because for the boilerplate  
3 it's going to be applicable obviously to all the  
4 botanicals. That's when we move forward.

5 DR. BERGFELD: I'm just writing "poor  
6 abstract."

7 DR. MARKS: Good.

8 DR. BERGFELD: I mean, it doesn't tell  
9 me enough. And it tells me --

10 DR. MARKS: Do you want to talk to  
11 Monice so when she reads that she doesn't feel --

12 DR. ANSELL: Feelings are hurt?

13 DR. MARKS: Yes, feelings are hurt. At  
14 any rate, so we're going to move forward issuing a  
15 tentative report "safe with a concentration of 0.2  
16 leaf extract" would be the conclusion.

17 DR. BERGFELD: How about needs a  
18 different abstract?

19 DR. MARKS: Okay. Thank you, Jay, for  
20 providing that clarification and suggestion of  
21 moving forward. Rather than "insufficient," we'll  
22 put a limit. Okay.

1                   Next, the mono and disaccharides. Let's  
2 see here. So this is Monice again. Bart, it  
3 looks like you're pinch hitting.

4                   DR. HELDRETH: I think so.

5                   DR. MARKS: This is the first time we've  
6 seen these cosmetic ingredients. There are 24 of  
7 them that are in this report. They are common  
8 dietary sugars, sugar replacements, and they are  
9 GRAS. So there are several questions that arise.  
10 The first one, of course, are all these  
11 ingredients that are included here okay. Is there  
12 any one that we want to delete? That's on page  
13 11. Tom, was there any ingredient that stuck out  
14 to you that was -- I can tell you, Ron Shank  
15 didn't pick out any one that he wanted to delete.  
16 And he actually --

17                   DR. SLAGA: Actually, I didn't.

18                   DR. MARKS: He has the --

19                   DR. SLAGA: -- delete, but the other Ron  
20 probably will have one or two maybe.

21                   DR. MARKS: Yeah, we'll see what he has  
22 to say with that. We'll get that, yeah.

1 DR. SLAGA: They all look simple enough  
2 to me.

3 DR. MARKS: Okay, good.

4 DR. BERGFELD: I was amazed at the  
5 concentrations in all the products of the sugars.  
6 This was amazing.

7 DR. MARKS: Well, this gets into another  
8 -- well, that'll be my issue because Ron Shank  
9 said that the conclusion "safe as used,  
10 ingredients are GRAS, REACH Article 4 of common  
11 food ingredients, non-irritating, non-  
12 sensitizing. Wave 2 supports this. Wave 2  
13 support sucrose at a concentration of 14.5 percent  
14 in an HRIPT." However, in this report, sucrose is  
15 used up to 58 percent. And then Wave 2 data,  
16 glucose sensitization was okay up to eight  
17 percent, but glucose is used up to 91 percent.

18 So I had questions. You know, I can't  
19 recall, and we didn't see any case of allergy to  
20 sucrose or glucose, but there's not data in here  
21 to support neither irritation nor sensitization at  
22 such high concentration.

1 DR. BERGFELD: But they eat it.

2 DR. MARKS: Yeah.

3 DR. BERGFELD: And that's the point.

4 Here's another GRAS food data piece.

5 DR. HELDRETH: Right. Those ingredients  
6 that are in here that are not GRAS are at various  
7 concentrations.

8 DR. SLAGA: Yeah. The non-GRAS are,  
9 what, less than one percent or something?

10 DR. HELDRETH: Right.

11 DR. MARKS: Yeah. And then the other  
12 question, I think, the Council had was the not  
13 identified as common dietary substances, for  
14 example, a monosaccharides fructose, et cetera.  
15 Can we just use the GRAS and read across? Ron  
16 Shank thought it was fine. Tom, do you?

17 DR. SLAGA: And I do, too.

18 DR. MARKS: Okay. So I still, you know,  
19 I guess I intuitively feel they're safe if such is  
20 sugar at this high concentration from the case  
21 reports. But I can remember when we had  
22 corticosteroids at one time, which is an obviously

1 natural substance that we secrete ourselves. And  
2 if anybody suggests that we were allergic to  
3 topically to glucocorticosteroids, you would've  
4 said crazy. So I guess I'm fine with --

5 DR. SLAGA: I think that taking glucose,  
6 for example, as you stated, 91 percent in cosmetic  
7 comes to 91 percent, 98.

8 DR. MARKS: Yeah.

9 DR. SLAGA: Wouldn't there be some  
10 reaction to the lips or around the lips if there  
11 were something?

12 DR. MARKS: Oh, absolutely.

13 DR. BERGFELD: I don't think you test  
14 for it. You have no catch test for these  
15 saccharides.

16 DR. MARKS: No, we don't test to it,  
17 Tom. And I guess this always gets back to -- I'm  
18 surprised Ron Shank didn't mention anything.  
19 Having no data is not having data on it. And it's  
20 interesting they did HRIPT and say why do you need  
21 to do it for sucrose? I think just maybe because  
22 that cosmetic product as the total product was



1       being tested. And it just so happened to have  
2       14.5 percent sucrose in it.

3               So I agree with you. I would expect we  
4       would see a number of case reports of cheilitis if  
5       either one of these were a sensitizer. And so I  
6       think I've got to go with clinical experience here  
7       that this is okay at these high concentrations.

8               DR. BERGFELD: You'd want to put that in  
9       your discussions.

10              DR. MARKS: Yeah. I would like to put  
11       it in the discussion part just to indicate,  
12       because if anybody is looking at this and saying,  
13       well, what data do you have that's in the report,  
14       you really don't. It's the lack of case reports  
15       and clinical experience.

16              DR. SLAGA: Yeah. As long as that's in  
17       the discussion, I think we're okay.

18              DR. MARKS: So I'm going to put in here  
19       don't need HRIPT for sucrose because of lack of  
20       clinical reports of irritation and sensitization.  
21       And then we'll put that in the discussion. Okay.

22              DR. SLAGA: Great.

1 DR. MARKS: So it'll be a tentative  
2 report with "safe." Good.

3 DR. ANSELL: We do have an editorial  
4 discussion we think is really quite significant.  
5 The grouping of all these monodisaccharides when  
6 we know that some of them are metabolized, some of  
7 them are not metabolized. There should be a much  
8 more robust discussion as to why these have all  
9 been grouped together. The justification for the  
10 family we think would be an important addition to  
11 grouping all the monodisaccharides together.

12 DR. HELDRETH: Yeah, we left out -- for  
13 those that are GRAS, we didn't want to go back and  
14 reinvent the wheel on those reports. And those  
15 that are not GRAS, the only type of absorption and  
16 metabolism information is generalized statements  
17 out of textbooks. And it's focusing on oral  
18 metabolism. And we weren't sure that that really  
19 played any role in determining the safety of the  
20 cosmetic computation. So that's why we didn't put  
21 things like a certain mono-GRAS ingredient might  
22 be metabolized and be able to create energy in a

1 cell. We're not sure that that is particularly  
2 relevant to dermal application.

3 DR. ANSELL: Right. We're not  
4 disagreeing with the conclusions. We just think  
5 that because of the size of the family and the  
6 diversity of these sugars that there should be a  
7 much more robust coherent discussion as to  
8 essentially just what you're talking about as to  
9 why we feel they can all appear in the same  
10 report.

11 DR. HELDRETH: Okay. Is there any  
12 specifics? Actually I think delineating between,  
13 you know, which ones of these fall under the  
14 classical disaccharide definition and those that  
15 don't necessarily go through open-closed chain, an  
16 isomerization. Is that the kind of things that  
17 you're pointing at?

18 DR. ANSELL: I actually was thinking  
19 more what you started with.

20 DR. HELDRETH: Okay.

21 DR. ANSELL: Is that, you know, it'  
22 recognized that these are metabolized differently,

1 but that, you know, its relevance to the cosmetic  
2 applications. And I think the CSSC might be  
3 willing to provide some suggestions in that  
4 regard.

5 DR. HELDRETH: Would that be more of an  
6 upfront to the start of the toxicokinetics as  
7 opposed to explanation of the chemistry? I just  
8 want to give Monice the best direction.

9 DR. ANSELL: We would have to provide  
10 that.

11 DR. HELDRETH: Okay. We'll be on the  
12 look.

13 DR. ANSELL: These structurally  
14 similarities will (inaudible) ingredient into a  
15 report. And we think it's more complex than that.

16 DR. HELDRETH: Okay. We'll be on the  
17 lookout.

18 DR. MARKS: Okay. Any other comments?

19 DR. SLAGA: No.

20 DR. MARKS: Okay. Next, the alpha  
21 hydroxy acids. Okay. So this is a re-review of  
22 the alpha hydroxy acids as used in cosmetics. In

1 '98, the Panel concluded, and it's a rather  
2 lengthy discussion or conclusion, I should say.  
3 "Glycolic and lactic acid, they're common salts.  
4 They're simple esters. They're safe for use in  
5 cosmetic ingredients at concentrations less than  
6 or equal to 10 percent, at a final formulation pH  
7 of greater than or equal to 3.5, when formulated  
8 to avoid increasing sun sensitivity or when  
9 directions for use include the daily use of sun  
10 protection. These ingredients are safe for use in  
11 salon products at concentrations less than or  
12 equal to 30 percent, at a final formulation pH of  
13 greater than or equal to three percent in products  
14 designed for brief discontinuous use followed by  
15 thorough rinsing from the skin when applied by  
16 trained professionals and when application is  
17 accompanied by directions for the daily use of sun  
18 protection."

19                   And so, that's a fairly lengthy  
20 conclusion that was reached in 1998. The use of  
21 the alpha hydroxy acids have increases  
22 significantly. Glycolic acid now in 337

1 formulations, lactic acid in over a thousand  
2 formulations. The concentrations of use have also  
3 changed. Glycolic acid up to 50 percent ethyl  
4 lactate at 95 percent in "other manicuring  
5 formulations," 50 percent in nail polish. And  
6 myristyl lactate, 13 percent in lipstick  
7 formulations.

8 So the first question, of course, is do  
9 we reopen this. Ron Shank's comment was, "All  
10 conclusions still valid. Do not reopen this  
11 report."

12 DR. BERGFELD: I felt that way, too.

13 DR. SLAGA: I had do not reopen.

14 However, there were two carcinogenicity studies  
15 that really helped this report out. It doesn't  
16 change the conclusion, though, and that's why I  
17 think Ron is doing that. But we didn't have any  
18 photocarcinogenicity or co-carcinogenicity data in  
19 the past one.

20 DR. BERGFELD: But that could be added  
21 in the comment part, the do reopen.

22 DR. SLAGA: And that's what I finally

1 thought that that was just good enough in our  
2 re-review summary to really emphasize those  
3 studies.

4 DR. BERGFELD: Because we update the  
5 references as well in that.

6 DR. SLAGA: Yeah. Okay. Do not reopen.

7 DR. MARKS: Okay.

8 DR. BERGFELD: The only question I have  
9 is whether they wanted to add anything to it, but  
10 I don't see here that they did. Did I miss that?  
11 No.

12 Another question I had was in  
13 formulation of the salts, there are two reasons  
14 these are used. They're used as humectants, and  
15 they're used as exfoliants basically, okay? I'm  
16 not sure I'm clear when I read this that you get  
17 the sense that that's how they're being used. We  
18 have a sense of concentration restriction, and  
19 then you have concentrations and formulations, and  
20 in some instance you talk about actual  
21 concentrations. In other situations, you just  
22 talk about percentages. So I think it's the

1 actual that you could restrict.

2 And the actual is that -- let me see --  
3 the three percent. The concentration about 10  
4 percent of final formulation pH of less than 3.5.  
5 That's the actual. But through the document, I  
6 got a little bit confused if we were talking  
7 actual or just what was quoted in the formulation,  
8 which does not always translate to actual.

9 DR. HELDRETH: I see what you're seeing.

10 DR. BERGFELD: Now is it your opinion in  
11 cosmetics that these are used other than  
12 humectants and exfoliants? See, the restricted  
13 use is for rinse-offs. That's an exfoliant.

14 DR. ANSELL: I'm not sure I understand  
15 that they are used as humectants.

16 DR. BERGFELD: Oh, yeah, they are. Oh,  
17 yeah, they are. Yeah, the old literature really  
18 was a great humectant.

19 DR. MARKS: I don't think that changes  
20 the conclusion.

21 DR. BERGFELD: It doesn't change the  
22 conclusion.



1 DR. HELDRETH: I mean, I think a lot of  
2 these can function in multiple ways that maybe we  
3 don't necessarily see on the surface.

4 DR. BERGFELD: Well, I can tell you how  
5 it functions. I did the research on it. I can  
6 tell you what it does to the dermis.

7 DR. HELDRETH: But any of these can be  
8 like --

9 DR. BERGFELD: If that's biological  
10 activity that you're going to talk about. But a  
11 clinical activity is a humectant. I mean, they're  
12 (inaudible) dermis.

13 DR. HELDRETH: But, I mean, any of these  
14 could be a pH adjuster as an --

15 DR. BERGFELD: Yeah, I guess they could.

16 DR. HELDRETH: And that's not  
17 necessarily listed. So, I mean, there are  
18 possible functions here, and that's somewhat the  
19 problem with relying on cosmetic function is that  
20 there's no vetting of that. It's what a submitter  
21 that wanted a name for their -- they said it's a  
22 pH adjuster. They said it's this particular

1 function. That doesn't mean it functions like  
2 that even in their product or somebody else's  
3 product. So they may have multiple cosmetic  
4 functions. I think product type and the  
5 concentration within that product type is more  
6 dependable.

7 DR. BERGFELD: Am I confusing you with  
8 my concept of what I was reading, because what our  
9 problem is as dermatologists is that we use it as  
10 a therapy. And then we use it as a maintenance  
11 therapy for good skin texture, which would be  
12 humectant, exfoliant. And that one is restricted  
13 here. Physicians' offices are not restricted.

14 SPEAKER: Yeah. What I think is there  
15 are four uses, okay. And they go by actual acid  
16 content.

17 DR. BERGFELD: Right.

18 SPEAKER: The lowest levels are when  
19 you're using it to adjust pH, and you're typically  
20 using about a half a percentage, and what happens  
21 is you're forming a salt is all you're doing. And  
22 you're just using a drop of pH or whatever.

1                   And the second is the consumer use,  
2                   which is what you describe as the maintenance.  
3                   Okay. Then there are the two that I put in the  
4                   categories "professional use." The ones that are  
5                   used by spas and licensed desmaticians.

6                   DR. BERGFELD: Right.

7                   SPEAKER: And then the last use is the  
8                   doctor prescribed or given where they're using it  
9                   at very high concentrations, but that's only under  
10                  a physician's care.

11                  DR. BERGFELD: Okay.

12                  DR. MARKS: And then, Tom, your comment  
13                  captured in the discussion again, that was --

14                  DR. SLAGA: Yeah. We should discuss  
15                  photo carcinogenicity studies which support, you  
16                  know --

17                  DR. BERGFELD: Safety?

18                  DR. SLAGA: The maximum level was 10  
19                  percent.

20                  DR. BERGFELD: Right.

21                  DR. MARKS: Okay. "Discuss photo CA  
22                  studies," and it was "safe." Okay, good. And

1 that wasn't in their previous document, so that  
2 definitely should capture that. Anything else,  
3 Tom?

4 DR. SLAGA: Not from me.

5 DR. MARKS: Wilma? Jay?

6 DR. ANSELL: I'm trying to track this  
7 down. Actually, David, the sun safe statement  
8 within the report has been updated since the  
9 report was published?

10 SPEAKER: Yes. The FDA issued one, and  
11 it's in an FDA guideline.

12 DR. ANSELL: So if we include the  
13 language in here, we might want to tell people to  
14 refer to the most recent statement in the case.

15 DR. MARKS: Great. Thank you. So how  
16 should that be? So that would be in the  
17 discussion --

18 DR. ANSELL: Right.

19 DR. MARKS: -- to latest FDA --

20 SPEAKER: Guidance document on AHA, the  
21 most recent.

22 DR. MARKS: AHA document.

1 DR. BERGFELD: Could you remind again on  
2 the salon use, is that still considered a cosmetic  
3 use? We have the nail salon use.

4 SPEAKER: Basically you get peels at  
5 spas.

6 DR. BERGFELD: I know, but is that  
7 considered under the PCPC umbrella?

8 SPEAKER: Yes.

9 DR. MARKS: Yeah.

10 SPEAKER: But because of the way they  
11 are licensed and applied, this is not something  
12 that consumers are applying. This is done by  
13 professionals or semi-professional --

14 DR. BERGFELD: Well, I what I'm  
15 suggesting, would it be helpful to the reader of  
16 this document to define these four parameters in  
17 which these products are used in broad categories?

18 SPEAKER: I think so.

19 DR. BERGFELD: I think so, too. So I'd  
20 like to add to this discussion.

21 DR. MARKS: Let me see here.

22 MS. FIUME: I'm sorry, Dr. Bergfeld, I'm

1 coming in a little late. What did you want  
2 defined?

3 DR. BERGFELD: Well, were discussing the  
4 actual use and the restricted concentration these  
5 we have currently have. We have restricted -- let  
6 me see, I have it underlined here --  
7 concentrations of 10 percent or less and final  
8 formulations of pH of less than 2.5. That is the  
9 restriction for the cosmetic product, okay?

10 And we were discussing the actual  
11 clinical use of these products for the consumer,  
12 the salon, and the physician. For the consumer,  
13 it's humectants. For the salon, it's usually an  
14 exfoliant/peeler. And it has to do with the  
15 concentration. Are they still restricted by this  
16 restriction?

17 DR. MARKS: Yeah, in salon there's  
18 different concentrations that they can use and  
19 different --

20 DR. ANSELL: Yeah, that's a very  
21 interesting question. I mean, salons fall outside  
22 of the scope, but not the scope of the FDA, but

1 outside the scope of some of the regulatory  
2 framework. So I think that's a very good  
3 question. I will consult.

4 DR. BERGFELD: Okay, because it would be  
5 nice for the reader to realize that these are used  
6 differently by different groups. But what is  
7 available for the common consumer is restricted.

8 DR. MARKS: Actually it says that pretty  
9 clearly, I thought, in here. "Safe for use in  
10 cosmetic concentration," dah, dah, dah, dah. And  
11 then it says in salon -- then it goes into "safe  
12 for use in salon products." So they're  
13 obviously -- I mean, it's intuitive, and I'm sure  
14 it's in the discussion from the original document.

15 DR. BERGFELD: I'd like to bring that  
16 back.

17 DR. MARKS: Yeah. So, Monice, so far  
18 we've come to the conclusion, I don't think that  
19 will change. We don't reopen this. We discussed  
20 the photocarcinogenic studies that support the  
21 safety of these ingredients. We refer to the  
22 latest FDA guidance, AHA document. These would be

1 discussed points.

2 And then the last point you want to make  
3 is about personal and salon use?

4 DR. BERGFELD: Well, I think if we  
5 summarize what we've got here, captured about what  
6 happened in '98 and what happened in 2004, I think  
7 that probably covers it.

8 DR. MARKS: Okay. I'll let Monice --  
9 we're going to be --

10 DR. BERGFELD: Put in the discussion of  
11 the non- opened document.

12 DR. MARKS: Okay. Anything else? Tom?

13 DR. BERGFELD: And we were going to have  
14 them refer to the FDA guideline document, AHA, in  
15 the discussion.

16 DR. MARKS: Yeah. I put that in there.  
17 Anything else?

18 DR. SLAGA: I'm good.

19 DR. MARKS: Okay, Tom. So don't reopen.  
20 Let me go ahead. Any other comments?

21 (No response.)

22 DR. MARKS: So, you know, Wilma, I'm not



1 quite so sure that for personal use these aren't  
2 now used as exfoliants also because I think some  
3 of the --

4 DR. BERGFELD: They are.

5 DR. MARKS: Yeah.

6 DR. BERGFELD: They are. I said that.

7 DR. MARKS: Oh, in salons for sure.

8 Personal use, too, yeah.

9 DR. BERGFELD: Yeah, personal use,  
10 humectants and exfoliants.

11 (Cross talking.)

12 DR. MARKS: Right.

13 DR. BERGFELD: Low concentration.

14 SPEAKER: One application for the  
15 consumer use is --

16 DR. BERGFELD: And it's lower. Somehow  
17 the peel is less, so it would be concentration.

18 DR. MARKS: Okay.

19 MS. FIUME: Can I --

20 DR. MARKS: Yes?

21 MS. FIUME: So you wanted the FDA  
22 guidance brought into the discussion?

1 DR. MARKS: Yeah, in the discussion that  
2 there's a new guidance document from the FDA, a  
3 more recent one. David, when was that  
4 approximately? Yeah, whatever. Since '98.

5 DR. BERGFELD: I have the 2005 in there.

6 DR. MARKS: Oh, you have 2005. Do you  
7 think that's the one then? It probably is.

8 SPEAKER: Yeah, I think that's the  
9 latest one.

10 DR. MARKS: Okay.

11 SPEAKER: We'll check it.

12 DR. ANSELL: I think the comment was  
13 more to rather than relying on this report for the  
14 specific labeling language that they reference the  
15 most current guidance because we may not get back  
16 to this for another 15 years. You actually put  
17 the regulatory required text into the report.

18 MS. FIUME: Okay.

19 DR. ANSELL: It's our suggestion that we  
20 at least point out that they should not rely on  
21 this, that they should reference the most current  
22 FDA guidance for the exact language.

1 MS. FIUME: Okay.

2 DR. MARKS: Sounds good. Any other  
3 comments?

4 (No response.)

5 DR. MARKS: If not, we move onto the  
6 tocopherols. And these ingredients all comprise  
7 what is a group known as vitamin E. And so, this  
8 is a scheduled re-review of tocopherols. In 2002,  
9 the Panel reviewed 10 as listed on a memo, 10  
10 ingredients, finding a safe conclusion. And in  
11 this re-review, we want to reconfirm the safety of  
12 those ingredients, and then it was suggested to  
13 add the tocotrienols to this group. And those  
14 four ingredients, again, are listed in the memo  
15 from Monice dated November the 15th.

16 So two questions. Reopen to add on the  
17 tocotrienols? If yes, is it a no-brainer? And it  
18 appears to be a no-brainer from my point of view.

19 DR. BERGFELD: I agree.

20 DR. SLAGA: Yeah.

21 DR. MARKS: So I would reopen those --

22 DR. SLAGA: And I agree, too. And it

1 still would have the same conclusion.

2 DR. MARKS: So, yeah. And Ron Shank  
3 says, "Not much toxicology on the tocotrienols,  
4 but ample data on the tocopherols, which can be  
5 used as a read-across. Reopen to include the new  
6 ingredients, and the conclusion is the same." Let  
7 me see. I said in my comments, I didn't say it  
8 was necessary. I just said it would be good to  
9 have an HRIPT at 5.4 percent. If we reopen it,  
10 the use of tocopherol and leave-ons, it's  
11 increased by over 100 percent. It's gone from two  
12 percent to 5.4 percent.

13 And we don't have an HRIPT at that  
14 concentration, but again, when you look at the  
15 clinical data on it, it's got to be safe because  
16 we weren't endemics of allergy to tocopherol at  
17 that concentration of 5.4. And as far as the  
18 add-ons, the tocopherol phosphate, we have good  
19 irritation and sensitization data, which is  
20 "safe."

21 DR. BERGFELD: In your patch testing,  
22 what is the routine for vitamin E?

1 DR. MARKS: We used to patch test with  
2 it, and the number of individuals with sensitivity  
3 was so low, we dropped it. And, Monice, you have  
4 that data in here. I forget, it was thousands of  
5 individuals, and it was just a couple dozen maybe  
6 that were sensitive to tocopherol.

7 Now, you know, what were we testing with  
8 that? We were testing tocopherol. What was in  
9 it, which portions of it? I'm not sure we know  
10 actually as the North American group. Where is  
11 it? I have it highlighted somewhere here. Not a  
12 photoallergen. The ECHA, not a sensitizer.  
13 That's the tocopherol acetate. Local lymph node,  
14 that's with the tocopherol phosphate. Somewhere  
15 in here you had the North American group quoted.

16 DR. BERGFELD: I'm wondering if it's in  
17 the original.

18 DR. MARKS: Maybe it was the original.

19 DR. BERGFELD: -- don't you think, from  
20 the original point, the summary statement?

21 DR. MARKS: Yeah. Let me see. So I  
22 would reopen and "safe." And, Jay, if you had for

1 the 524, that would be nice. If you don't, unless  
2 Don wants it, I think we could move forward.

3 MS. FIUME: Dr. Bergfeld, it is  
4 summarized in the original report. That's where  
5 it is. Dr. Marks, under the human dermal  
6 irritation and sensitization summary for the  
7 original report on tocopherols.

8 DR. MARKS: What page is that? You can  
9 just give me the numbers. It was like 4,000,  
10 wasn't it, that was in that review in that article  
11 that were tested, and maybe 24 were positive. I  
12 forget the exact numbers. It was large.

13 MS. FIUME: Yeah. I don't have the  
14 exact numbers in the original.

15 DR. MARKS: Okay.

16 DR. BERGFELD: Did you have the REACH  
17 number? I just was looking for it. I didn't see  
18 it. Was it under --

19 MS. FIUME: The summary data was under  
20 dermal irritation and sensitization of humans, but  
21 I don't have the numbers there. I'm just going to  
22 look and see if there were any original reports.

1 DR. BERGFELD: Here it is, non-human  
2 from the original report in rabbits.

3 MS. FIUME: Are you on page 24?

4 DR. BERGFELD: I am on 24.

5 MS. FIUME: Under the human --

6 DR. BERGFELD: Under human, okay.  
7 Human, oh, there it is. It's italicized. Okay.

8 DR. ANSELL: But it doesn't have --

9 DR. MARKS: No. Okay. At any rate,  
10 we'll move forward. So, Tom, we'll move forward  
11 to -- let me see, who presents this? It's me.  
12 I'll move to reopen to add the tocotrienols. Am I  
13 saying that right, "tocotrienols?" And with the  
14 conclusion "safe."

15 DR. SLAGA: Great.

16 DR. BERGFELD: Could I go back to this  
17 page 23? In the summary it says, "1992 results in  
18 a large of number of outbreaks in creams  
19 containing tocopherol. Positive patches were  
20 seed." I suspect that's leading. That makes you  
21 think it's really a sensitizer. You probably need  
22 to add that it's rare or whatever term you've used

1 in the original there.

2 DR. MARKS: Which page are you --

3 DR. BERGFELD: That's 23 under "human."  
4 It's italicized. It's right on the top.

5 DR. MARKS: Twenty-three. Was that the  
6 one where it was composed of multiple ingredients?

7 DR. BERGFELD: North American contact --  
8 yeah, that's the one that you suggested that it  
9 was probably due to something else. But you also  
10 said that there were only 23 out of 45 --

11 DR. MARKS: Well, I'm not sure. I was  
12 doing that out of memory. I wasn't doing that out  
13 of --

14 DR. BERGFELD: But this sounds more,  
15 whatever.

16 DR. MARKS: So 23 --

17 DR. BERGFELD: It's 23 at the top under  
18 "humans."

19 DR. MARKS: "Human," from the original  
20 report. Oh, yeah. To me it was pretty -- they  
21 say, however, the outbreaks were thought to be due  
22 to a metabolite or contaminant of the product. So



1 to me, that's directly out. That's why I wasn't  
2 concerned about that Swiss outbreak. And in the  
3 original report, it was felt to be safe. So I  
4 think it's fine.

5 DR. BERGFELD: You didn't want to put  
6 "rare" or something in front of that just to  
7 qualify it a little bit more?

8 DR. MARKS: No. I guess, Monice, what  
9 you could do is get the original from the North  
10 America. I don't know where I got those numbers.  
11 Maybe it was another ingredient.

12 MS. FIUME: No, that's right. It was  
13 between 1985 and 1989, 4,887 patients patches with  
14 five percent. Twelve percent were allergic.  
15 Twelve patients were thought to have an allergic  
16 reaction. Two were irritated, and two were  
17 questioned.

18 DR. MARKS: Yeah, okay. I doubled it.  
19 I put it in the 20s. So it's 4,800, and only 12  
20 were felt to be allergic. And these, of course,  
21 are highly selected patients because everybody we  
22 --

1 DR. BERGFELD: How did you put the 20  
2 against 4,000?

3 DR. MARKS: Twelve.

4 DR. BERGFELD: No, I don't mean that.  
5 Incidental, rare?

6 DR. MARKS: Rare.

7 DR. BERGFELD: Yeah. I just think that  
8 if you add that, it would make more sense.

9 DR. MARKS: And if we wanted to even be  
10 more illustrative, the North America group deleted  
11 this as an ingredient to patch test in their  
12 screen because it was such a rare reaction.

13 DR. BERGFELD: That's a discussion.

14 DR. MARKS: Yeah, that would be  
15 discussed. Okay. So we will -- let me see. Let  
16 me go back. We will reopen with the adding  
17 tocotrienols with the conclusion of "safe as  
18 used."

19 DR. ANSELL: And we had an editorial  
20 comment. We've added a section called  
21 anticarcinogenicity.

22 DR. BERGFELD: Oh, that's nice.

1 DR. ANSELL: Well, it shows reduction in  
2 tumor incidence.

3 DR. BERGFELD: All these medical  
4 (inaudible) doesn't do any of that.

5 SPEAKER: That was our comment that  
6 there should be some mention of that rather than  
7 just having all the -- leaving it sounding like  
8 it's got that anticarcinogenesis activity.

9 DR. ANSELL: Yeah. First of all,  
10 anticarcinogenicity is a claim, not an effect per  
11 se.

12 DR. BERGFELD: Okay. So we'd like to  
13 have both elements that these are carcinogenicity  
14 studies, which have specific results, and we'd  
15 like to mention --

16 SPEAKER: Epidemiology data that  
17 unfortunately doesn't confirm.

18 DR. MARKS: Did you hear that, Tom? Did  
19 you hear these comments?

20 DR. SLAGA: Yeah, I heard it, but, you  
21 know, we have in a number of reports,  
22 anticarcinogenicity. And to me, you know, what

1 that signifies is carcinogenesis study, but the  
2 chemical tocopherol, what have you, would have an  
3 anti-effect which is in support of the  
4 carcinogenicity study, too.

5 DR. BERGFELD: So where would you put  
6 that? Where would you put that anticarcinogenetic  
7 activity, in the discussion as a --

8 DR. SLAGA: Couldn't it be just with the  
9 carcinogenesis studies because the controls  
10 usually have to have tocopherol or what have you  
11 as a control. And if it shows negative, that  
12 means it's not carcinogenetic.

13 DR. ANSELL: Right. I think it is a  
14 carcinogenicity result, you know. To put it down  
15 as an anti-carcinogen, I just think, as a heading  
16 is inappropriate. But we also --

17 DR. SLAGA: Well, it could be under  
18 carcinogenesis, and maybe that's where it should  
19 be as a sub under that. Then it doesn't really  
20 sound as a separate type of -- we have added that,  
21 you know, the writer to put that in a number of  
22 extracts from plants. We'd have to go back and

1 re-amend a lot of reports.

2 DR. BERGFELD: So are you nixing what  
3 Jay suggests, or what are you doing with it? He  
4 wants another title, another topic title.

5 DR. SLAGA: I would put it as a sub-cat  
6 under carcinogenesis.

7 DR. MARKS: Does that sound good to you,  
8 Jay?

9 MS. FIUME: That's actually what it is  
10 right now.

11 DR. MARKS: That's what it is. You just  
12 want to get rid of the heading  
13 "anti-carcinogenic." Is that it?

14 DR. ANSELL: Pretty much.

15 DR. BERGFELD: What do you want to call  
16 it?

17 DR. MARKS: It's just under that  
18 called --

19 DR. ANSELL: Yeah.

20 DR. MARKS: Either it's pro-carcin or  
21 there is anti-carcin. And that would be under the  
22 heading, and you'd just read it rather than

1 highlight it as anti- carcinogenetic. Is that  
2 right?

3 DR. ANSELL: Yeah. It's a result.

4 DR. MARKS: I think it's just editorial.

5 DR. SLAGA: Right.

6 DR. BERGFELD: We don't normally add  
7 editorials to studies.

8 DR. MARKS: No, no, it's the heading.  
9 To me it's an editorial change. So, Tom, I'll let  
10 you make the final determination. Are you fine  
11 with just -- yeah. So, Tom, I think you're fine  
12 with that then, just put it under the carcinogenic  
13 heading, and that's just another paragraph  
14 highlighting as anti-carcinogenetic effect.

15 DR. ANSELL: Which would be a part of  
16 the discussion as to whether we conclude it's  
17 carcinogenetic or not.

18 DR. MARKS: Yeah, I think we're in  
19 agreement, Jay, with what you suggest. Is that  
20 right, Tom?

21 DR. SLAGA: Yeah.

22 DR. MARKS: Yeah, okay. Any other

1       comments?

2                   DR. ANSELL:  Well, the second comment is  
3       that there's epi data, which we think is relevant  
4       to this whole discussion, too.

5                   DR. MARKS:  Epidemiologic data on  
6       carcinogenesis or what?

7                   DR. ANSELL:  This presumption that it's  
8       anti- carcinogenetic.

9                   DR. MARKS:  Yeah, okay.  Okay, fine.

10                  DR. BERGFELD:  Where you put that?

11                  DR. ANSELL:  Do we have --

12                  DR. BERGFELD:  I didn't see it.

13                  DR. ANSELL:  Don't we have epi studies?

14                  DR. BERGFELD:  I haven't seen it.

15                  MS. FIUME:  No, because they are mostly  
16       on pure vitamin E, oral supplementation of pure  
17       vitamin E, which I did not think were relevant to  
18       the cosmetic safety because the incidental  
19       ingestion of tocopherol and tocopherol acetate is  
20       no higher than two percent for tocopherol and  
21       three percent for tocopherol acetate.  And those  
22       are generally undiluted vitamin E.  If the team

1 would like, I can find the summery review, but I  
2 don't know how much in depth you would like those  
3 studies to go.

4 SPEAKER: I don't think we were thinking  
5 in depth at all, just some mention so it's not  
6 left -- that the animal data is just kind of left  
7 unchallenged.

8 DR. MARKS: Okay. Have we got that  
9 settled?

10 DR. BERGFELD: With the --

11 DR. MARKS: Carcinogenesis, good. Tom,  
12 that okay with you?

13 DR. SLAGA: That's okay.

14 DR. MARKS: Okay. So tomorrow I will  
15 move we'll reopen, and we'll add to the  
16 tocotrienols with a "safe" conclusion, and note  
17 these editorial comments. Tomorrow if you want to  
18 make them, Jay, you may or we'll just assume  
19 they're going to occur. I mean, it doesn't change  
20 the intent of the document.

21 DR. ANSELL: No.

22 DR. MARKS: Okay. I'll wait until Ron



1 comes back.

2 SPEAKER: Taking a quick break?

3 DR. MARKS: Yeah. He should've done  
4 that first, huh? Let me see here. Next is -- why  
5 slow down? Chamomile, chamomilla recutita. And  
6 this is German chamomile, I believe, if I've got  
7 my German and Romans not mixed up. And, let's  
8 see, this is Wilbur.

9 MS. FIUME: He just started in the other  
10 team.

11 DR. MARKS: Okay. Ron Shank is brief on  
12 his next few here. So for the minutes, Ron Hill  
13 has appeared.

14 DR. HILL: I've had my first coffee  
15 since --

16 DR. MARKS: What we're going to do is,  
17 as you can tell with morning's discussions, I've  
18 taken the comments that Ron Shank has emailed and  
19 added those in the discussion of each of  
20 ingredient. Tom Slaga has been with us with most  
21 of this. Well, actually essentially all of it  
22 because I reviewed our initial ingredients with

1 Tom. And then what I'm going to do with Ron is  
2 we're going to finish up the ingredients we have  
3 at this point, and then Ron Hill and I will have a  
4 side bar this afternoon some time. And I'll just  
5 review all the ingredients and what conclusions  
6 and discussion we had. And then that way tomorrow  
7 Ron Hill -- I think tomorrow. The weather is  
8 predicted to be bad tomorrow, so there's --

9 DR. HILL: It's starting to go in the  
10 other direction, too.

11 DR. MARKS: Exactly. And I'm thinking  
12 the same thing. I drove it through it coming down  
13 here. I'm not looking forward to that tomorrow.  
14 So we may actually have the combined meeting of  
15 the teams. How do you refer to that, Wilma, when  
16 the whole panel --

17 DR. BERGFELD: Panel.

18 DR. MARKS: Yeah, the whole Panel --

19 DR. BERGFELD: Panel meeting.

20 DR. MARKS: The Panel meeting, we may  
21 move that up from tomorrow or we may have it very  
22 early tomorrow, I don't know. We'll see what the

1 weather forecast is over noon and decide how we  
2 want to proceed.

3 I think the Marks team will be ready to  
4 proceed with a Panel meeting by certainly  
5 mid-afternoon.

6 (Laughter.)

7 DR. MARKS: But at any rate, Tom, there  
8 may be an advantage of having these conference  
9 calls and emails.

10 DR. SLAGA: Right.

11 DR. MARKS: At any rate, so the next is  
12 a draft final report on chamomilla recutita. And  
13 in September, the Panel concluded that all these  
14 components of the flower extract, the powder, et  
15 cetera, are safe in the present practices of use  
16 and concentration described in this safety report  
17 when formulated to be non-sensitizing. It's  
18 insufficient for a number of other of these  
19 ingredients, which, again, is in the memo from  
20 Wilbur, the extract the whole plant, the flower  
21 and leaf extract, et cetera. And we'd need an  
22 HRIPT at 0.4 percent for the extract to be safe.

1 And that would be insufficient.

2 DR. BERGFELD: Do we have that comment  
3 in our discussion about why it's insufficient,  
4 what was needed?

5 DR. MARKS: No.

6 DR. BERGFELD: Because I think you have  
7 to put that in the discussion.

8 DR. MARKS: Yeah, I have that here. We  
9 did get some comments from the Council. We had  
10 towelettes with 0.01 percent extract, so very low.  
11 And then a hair gel with too little to smell here  
12 almost, .00006 percent of lower leaf extract was  
13 okay for HRIPT. But when I reviewed it, it looked  
14 like we would need an HRIPT of 0.4 percent for the  
15 extract to be safe.

16 Now, it's interesting. We could either  
17 do the "insufficient" or, as you suggested  
18 earlier, Jay, go to a concentration limit of 0.4  
19 percent for the extract, and put the whole thing  
20 as "safe when formulated to be non-sensitizing."  
21 I think it's interesting because as we go to the  
22 Roman chamomile, e say it's non-sensitizing, and

1 we don't have the data for all the various  
2 components of this botanical. So it's  
3 non-sensitizing in some ways, in my mind. Why do  
4 you have "insufficient" for some of the botanical  
5 or plant parts in the other when you just say if  
6 it's non-sensitizing. But at any rate, that's  
7 sort of my rambling preamble to how I saw it.

8           So Ron Shank, the conclusion was "safe."  
9 Or I should say the conclusion as Wilbur has  
10 stated here is fine. Tom, what do you feel?

11           DR. SLAGA: I think with the new data, I  
12 think it could be safe, but we could put the limit  
13 on if you want and still be formulated to be  
14 non-sensitizing.

15           DR. MARKS: Yeah. Instead of the  
16 insufficient portion of this conclusion, just say  
17 that with the limit for everything that we say is  
18 insufficient, just put a limit of 0.4 percent. I  
19 believe that's the right concentration, is that  
20 correct, for the extract. That was the highest  
21 concentration for the extract, 0.4 percent?

22           MS. FIUME: This is Wilbur's, not me.

1 DR. MARKS: Oh, yeah. And I didn't  
2 write a page that I could immediately go to the  
3 use table. Usually I do do that. Do you know  
4 what page the use table is, concentration on  
5 these? Did you find it? It's obviously towards  
6 the end.

7 DR. HELDRETH: PDF page 61.

8 DR. MARKS: Sixty-one, okay. Let's just  
9 confirm where I got that, yeah. I got it from  
10 Table 6. If you look at leaf -- I went for the  
11 leave-on concentration. If you go under the  
12 extract, the highest concentration on a rinse-off  
13 is .61, but for a leave-on it was 0.4. So I chose  
14 that as my maximum concentration. Do you see  
15 where we are, Tom, on page 61?

16 DR. SLAGA: Yeah.

17 DR. MARKS: That's how I got, if I we  
18 want to set a limit or if we want to know what we  
19 need to remove the insufficient, it would've been  
20 having an HRIPT of that concentration. What's  
21 your sense? Do you want to just leave the  
22 conclusion as is, or do you want to put a -- if we

1 put a limit, I think the limit would have to be,  
2 what is it,.0 -- what do we have to test that?

3 DR. BERGFELD: 0.4.

4 DR. MARKS: No, it's not 0.4. Where is  
5 it in -- it was in the memo what we have there,  
6 0.01. Yeah, I know.

7 DR. HILL: Well, 0.01 or "when  
8 formulated to be non-sensitizing."

9 DR. MARKS: Yeah, exactly.

10 DR. HILL: I mean, I guess we've done  
11 that approach before.

12 DR. SLAGA: "Formulated to be  
13 non-sensitizing."

14 DR. HILL: If you say "non-sensitizing,"  
15 somebody has to prove that, right? But if you  
16 say.01, you're good. They can use it. What if  
17 you made it either/or? I mean, I don't know how  
18 practical.01 is for anybody anyway.

19 DR. MARKS: Yeah. So Ron Hill, Tom,  
20 what's your sense? Ron Shank was the conclusion  
21 as it is now. And obviously the manufacturers  
22 could come back and give us proof that it's safe

1 at that concentration of 0.4 in leave-ons,.06  
2 percent for rinse-offs. Leave the conclusion as  
3 is?

4 DR. SLAGA: Yeah.

5 DR. HILL: Yeah.

6 DR. MARKS: Okay, good. Let me see who  
7 presents that tomorrow. I do. Okay. So we'll do  
8 a final report with the conclusion as stated, and  
9 then under what's insufficient, we can put in the  
10 discussion for an HRIPT for the extract. Okay.

11 DR. ANSELL: So --

12 DR. MARKS: Yeah. Actually when I went  
13 back and looked at it and re-thought it, Jay, we  
14 could only use "safe" up to 0.01 percent. I  
15 didn't think that would be very helpful because  
16 that's what we have the HRIPT data on. Okay. Why  
17 don't we leave it the same? We'll see what the  
18 Belsito team thinks tomorrow. We know what the  
19 need is, so I would move that we issue a final  
20 report. Wilma, any comments?

21 DR. BERGFELD: No, that was my comment,  
22 put it in the discussion.



1 DR. MARKS: Okay.

2 DR. ANSELL: I actually think it would  
3 be okay, the 0.01 for the plant parts in which it  
4 was insufficient.

5 DR. BERGFELD: So you're requesting it  
6 be 0.01 for everything.

7 DR. ANSELL: That it not be.

8 DR. BERGFELD: And be non-sensitizing.

9 DR. MARKS: Yeah, it may be  
10 non-sensitizing, and for the ones where it's  
11 insufficient, we actually wouldn't put an  
12 "insufficient." It would be formulated to be non-  
13 sensitizing, and for all those ingredients we have  
14 "insufficient," the limit would be 0.01.

15 MS. FIUME: So were data received on all  
16 of those plant particles?

17 DR. MARKS: No, in my mind, the extract  
18 represents all those others, you know, because  
19 it's really --

20 DR. ANSELL: And the 0.01 was on a whole  
21 plant.

22 DR. MARKS: Yeah. Ron, since, Jay, you

1 feel that would be --

2 DR. HILL: Yeah. I will reconfirm that.

3 DR. BERGFELD: Yeah, just like before.

4 DR. HILL: Well, no. My notes say --

5 DR. BERGFELD: Okay.

6 DR. HILL: We put a use limit.

7 SPEAKER: Yeah, that will protect some  
8 uses.

9 DR. HILL: Yeah.

10 DR. MARKS: Okay. Trying to do that for  
11 you, Jay, here.

12 DR. ANSELL: Okay.

13 DR. MARKS: Unfortunately, let's try  
14 this one.

15 MS. FIUME: So, Dr. Marks, I can let  
16 Wilbur know 0.01 on the extract.

17 DR. MARKS: Well, all those. Where it  
18 says "available data," are --

19 MS. FIUME: Because of the data that  
20 changed the "insufficient" to 0.01?

21 DR. MARKS: That towelette down below.

22 MS. FIUME: On the extract.

1 DR. MARKS: Yes. I look at the extract  
2 to be representative of those three others because  
3 it's the whole plant, so it should have all the  
4 ingredients within it that you're extracting out.

5 MS. FIUME: And you've had extract data  
6 in the report at a higher concentration, isn't  
7 that correct?

8 DR. MARKS: Yes. Yes. It was up to  
9 0.04 percent in the use table.

10 MS. FIUME: But under dermal irritation  
11 and sensitization, weren't there higher data  
12 already in the report last time?

13 DR. MARKS: For the ones that we say are  
14 safe, that was the flower. All of it was relevant  
15 to the flower and not the extract. You'll notice  
16 we said it's "safe" for the flower. The flower  
17 extract, the flower powder, the flower water, and  
18 the flower oil are "safe." And then the problem  
19 we had was, okay, we had we have that as  
20 supporting the flower, but we don't have data for  
21 the whole plant. And so now what we're going to  
22 do with the rest of it is just have a use limit of

1 0.1 percent.

2 DR. HILL: 0.01 percent.

3 DR. MARKS: I'm sorry, 0.01. Thank you.

4 DR. HILL: I just wanted to make it's  
5 clear.

6 DR. MARKS: Yes. Thank you. It's  
7 important to have the right numbers.

8 DR. HILL: Those are important.

9 DR. MARKS: Yeah, instead of  
10 "insufficient." Okay. Any other comments?  
11 Monice, does that answer your question?

12 MS. FIUME: I think so (inaudible).

13 DR. MARKS: Yeah, I hate to surprise  
14 Wilbur, that's for sure. Okay. Let me see if I  
15 can move this here. Let me put that on here.  
16 Okay. Next is the Roman chamomile, anthemis  
17 nobilis. And so in September, the Panel came to  
18 issue a draft final report with these ingredients,  
19 having a conclusion of "safe when formulated to be  
20 non- sensitizing." And now we're at the point at  
21 issuing a final report.

22 And it's interesting. This gets into --

1 this is what I'm going to ask Don tomorrow is are  
2 these ingredients okay with no sensitization on  
3 the powder and the water. I guess because it's  
4 more of the plant, he feels it's okay.

5 DR. BERGFELD: It's all the flower,  
6 isn't it?

7 DR. MARKS: Yeah. And with a  
8 non-sensitizing conclusion. So, Tom, move  
9 forward? Let me see what Ron Shank has to say.  
10 "Conclusion okay, 'safe, formulated to be  
11 non-sensitizing." Ron Hill?

12 DR. HILL: It's okay.

13 DR. MARKS: Okay. Tom?

14 DR. SLAGA: Okay.

15 DR. MARKS: Okay. Good.

16 DR. BERGFELD: Okay with me, too.

17 DR. MARKS: Wilma, Jay, Wilbur's  
18 surrogate, all set. Okay. Let's go ahead. Next  
19 is formic acid. And this is a draft amended final  
20 report on formic acid and sodium formate in  
21 September. We reached an amended conclusion "safe  
22 in the present practice of use and concentration

1 when formulated to be non-irritating." Ron Shank  
2 said it was fine. Ron Hill?

3 DR. HILL: I was part of that.

4 DR. SLAGA: Okay.

5 DR. MARKS: Okay with you, Tom?

6 DR. BERGFELD: I would be, too.

7 DR. MARKS: Okay. Any other comments?

8 (No response.)

9 DR. MARKS: If not, Don Belsito will  
10 make a motion. Presumably it'll be the same and  
11 I'll second it.

12 And then next, hydroxycinnamate. Yeah,  
13 that's a mouthful. So this is the first time  
14 we've seen this ingredient. Let's see what Ron  
15 Shank -- and he says page 19, "No more data are  
16 needed. Large molecule highly lipid soluble and  
17 like to penetrate viable epidermis. GRAS  
18 compound. No toxicity at a high or chronic use.  
19 'Safe as used.'"

20 DR. SLAGA: That's what I have, too.  
21 There's a lot of data supporting irritation  
22 carcinogenicity, genotoxicity, everything. Ron

1 Hill?

2 DR. HILL: Yes. The only thing I felt  
3 like I was missing was whether there's any  
4 capability, particularly in skin, to hydrolyze to  
5 the corresponding hydroxycinnamate. I'm not sure  
6 we needed to know that, but there is no  
7 information as to biological activity of that  
8 corresponding hydroxycinnamate, and I didn't go  
9 out and do an exhaustive search myself.

10 And I guess I didn't get any sense that  
11 it shows up enough as an impurity in the finished  
12 product because it's not made that way to know  
13 that we would've captured any toxicology as  
14 impurity in testing the substance. Plus we  
15 usually don't risk anything on that anyway. So I  
16 felt like I would like to have had some  
17 information about whether this stuff gets bio  
18 converted to the hydroxycinnamate to any  
19 appreciable degree. I doubt it because one of  
20 those panurethral centers prohibit it, but we  
21 don't know that. Otherwise, I didn't have any  
22 difficulties with any of them.

1 DR. MARKS: Interesting. When I looked  
2 at this report, my concern was it's being applied  
3 on the eyelid and also lips at 0.8 percent, and we  
4 didn't have any HRIPT at this use concentration  
5 even though it's a large molecule.

6 DR. HILL: It's not that large.

7 DR. MARKS: Okay. Well then, for me I  
8 would want to see an HRIPT in the eye and lip at  
9 the use concentration of 0.1 percent. So I would  
10 send it out as just an insufficient data notice  
11 and see if we could get that.

12 DR. BERGFELD: Is that different than an  
13 announcement, just out of curiosity. We've been  
14 using these terms.

15 DR. MARKS: Yeah, announcement.

16 DR. BERGFELD: Announcement?

17 DR. MARKS: Yeah. This allows industry  
18 to respond, and there's not the formal -- it  
19 doesn't move onto a tentative. Let's see, who  
20 presents that tomorrow? And then the only other  
21 thing, Monice and Wilbur, on page 5 where it has  
22 the checklist. See under "distributed for comment



1       only, do not cite or quote." Under irritation  
2       sensitization, he doesn't have any animal. That's  
3       not checked. There actually is animal data for  
4       irritation sensitization. That's a minor point.  
5       It's nice when you look back and you see the  
6       summary. That's on page 13 where there's animal,  
7       so that's a minor point.

8                        So, Tom, what do you think? I was a  
9       little uncomfortable just moving forward with  
10      "safe" without an HRIPT at use concentration of  
11      0.8 percent, I think particularly for the eye and  
12      the lip. You know, the eyelid skin is very thin  
13      and easily absorbed into and irritated. That's  
14      one of the highest absorption areas of the body.  
15      So does that sound reasonable that at least we'll  
16      see what --

17                      DR. HILL: Yeah. I think Ron Shank was  
18      looking into that, roughly 1,200 molecular weight  
19      in the log P of at least greater than eight, and  
20      he estimated it to be 20- something.

21                      DR. MARKS: Twenty-three.

22                      DR. HILL: But yet back when Dr.

1       Branough was presenting, there were substances  
2       with log P of 35 that were getting far enough into  
3       the upper skin to be able to get some access to  
4       the bloodstream or at least the estrases in the  
5       upper skin.

6                So my question is really, are we  
7       liberating any hydroxycinnamate, or we don't have  
8       any data that stuff is innocuous at any  
9       appreciable concentrations, and I'm good with  
10      that, too.

11               DR. ANSELL: We have a human at 0.5  
12      percent. I'm not sure --

13               DR. MARKS: Going from .5 to .8 makes a  
14      difference.

15               DR. ANSELL: Yeah. And we're not going  
16      patch people's eyes.

17               DR. MARKS: Yeah. I'm sorry, which page  
18      are you on? Oh, you're on --

19               DR. ANSELL: Yeah, I actually had a  
20      piece of paper --

21               DR. MARKS: Let me see. Hold on a  
22      second. It's somewhere around 13.

1 MS. FIUME: PDF 14.

2 DR. MARKS: Yeah. Yes.

3 DR. ANSELL: It's human?

4 DR. MARKS: Yeah, it is human, and I  
5 have that highlighted, 0.5. Yeah, I think the  
6 question there is the difference between 0.5 and  
7 -- let me just make sure. Yes, that's true with  
8 HRIPT.

9 DR. ANSELL: And reactions were not  
10 observed in any of the substances.

11 DR. MARKS: Yeah, exactly. I was  
12 probably being too conservative, Jay, the first  
13 time around.

14 DR. HILL: Well, let me ask this while  
15 you're there. Is that on intact skin with no  
16 penetration enhancement at all?

17 DR. MARKS: Correct. It doesn't look  
18 like they did any -- they didn't do any tape  
19 stripping.

20 DR. HILL: I have no reason to believe  
21 that the parent molecule would be sensitizing.

22 DR. MARKS: Yeah, okay.

1 DR. HILL: My only unknown is given that  
2 a membrane like you're talking about where there's  
3 a little more penetrability, if we have a  
4 hypothetical where that hydroxycinnamate is  
5 released, I can at least dream up a mechanism  
6 where that would be sensitizing. So, yeah, I  
7 don't know. .5 on intact skin is not the same as .8  
8 on dry area. Close enough, do you think?

9 DR. MARKS: Yeah, I think so. Jay, duly  
10 noted, thank you. I had it highlighted and it  
11 still --

12 DR. HILL: It's one of those where if  
13 they start seeing a problem clinically, it'll come  
14 down anyway.

15 DR. SLAGA: So we're going back to the  
16 original "safe," right?

17 DR. BERGFELD: Right.

18 DR. MARKS: Yes.

19 DR. SLAGA: I agree with that. I think  
20 the odds of that being hydrolyzed and penetrating  
21 or low would only be a certain percent. So the  
22 difference between .5 and .8 are really nothing.

1 DR. HILL: Could the discussion reflect  
2 at least the 1,200 molecular weight and high  
3 estimated log P, and then it be juxtapositioned  
4 with what was just said there, Tom? I mean, not  
5 in the conclusion, just somewhere in the  
6 discussion. Because if later people start seeing  
7 something going on, they'll have a quick way to  
8 figure out what might be -- I'm just saying.

9 DR. MARKS: Okay. So let me see who has  
10 this one tomorrow. Dr. Belsito's team. Don  
11 presumably, motion tentative, "safe" conclusion.  
12 I will second that.

13 DR. HILL: And I'll have a question for  
14 the toxicology people tomorrow, which was nothing  
15 technical about this ingredient, but a generality.  
16 On the acute toxicity study on the table, which is  
17 not part of the report where he didn't check  
18 parenteral, but there was an IP study. So IP is a  
19 gray area because it depends on exactly how you do  
20 it. It gets a first pass, but not a complete  
21 first pass, and beyond that it can be -- so I  
22 don't know if we need a separate column there when

1 those kinds of done. But I certainly interpret IP  
2 as different. One should interpret them  
3 differently than an oral study because what  
4 happens is quite different.

5 DR. BERGFELD: (Inaudible - 1:24:25).

6 DR. HILL: Well, I'm just throwing that  
7 out there for discussion, which I'll bring up  
8 tomorrow because --

9 DR. SLAGA: So definitely it's a  
10 difference, but it's compounded --

11 DR. HILL: I'm not talking about this  
12 compound. I'm talking about generality, but he  
13 didn't check the checkbox, and then I saw, whoa,  
14 there's an IP, but he didn't mark "parenteral."  
15 It's not really parenteral, but it's not oral.

16 DR. MARKS: I'll let Ron Hill and  
17 actually Wilbur have that discussion.

18 DR. HILL: Okay.

19 DR. MARKS: Then Wilbur can relay it to  
20 --

21 DR. HILL: I wanted Paul's take on it,  
22 but I can get that informally.

1 DR. MARKS: Yeah. Okay. Any other  
2 comments?

3 DR. ANSELL: Yeah. We are a little  
4 concerned that a number of the BASF studies, a  
5 number of studies were taken off of the BASF MSDS.  
6 And it may appear as separate studies when, in  
7 fact, they were part of the ECHA. The BASF MSDS  
8 was submitted solely for purposes of correcting a  
9 physiochemical property, which was in error. So  
10 we just wanted to be clear as we go through that,  
11 that the ones taken off the MSDS are already  
12 reported through the ECHA data.

13 DR. MARKS: Okay.

14 DR. BERGFELD: Editorial.

15 DR. ANSELL: Yeah.

16 DR. HILL: Yeah. I had some concerns  
17 related to the same body of data in terms of how  
18 it's presented.

19 MS. FIUME: Dr. Marks, for the  
20 discussion, other than the molecular weight, the  
21 log P, and we have data at 0.5 percent with no  
22 results. So we figured the 0.8 percent is okay.

1 DR. MARKS: Yes.

2 MS. FIUME: Is there anything else for  
3 the discussion?

4 DR. MARKS: No. Did you have anything  
5 else on the discussion, Tom?

6 DR. SLAGA: No.

7 DR. HILL: Me neither.

8 DR. MARKS: Okay. Now we're down to, I  
9 believe, the last item, the botanicals  
10 boilerplate. That's in the administrative -- did  
11 I miss any ingredients?

12 DR. BERGFELD: We're done.

13 DR. MARKS: Let me see. Let's go up on  
14 the administrative. And then, Wilma, this is page  
15 19 under the administrative.

16 DR. BERGFELD: We were just going to  
17 comment on it. We didn't have to do much with it.  
18 We were just --

19 DR. MARKS: So Lillian is not here, but  
20 when you asked about the abstract, see in page 20?

21 DR. BERGFELD: Yeah, I see it.

22 DR. MARKS: Tom, how did you like the



1 revised boilerplate framework for the botanicals?

2 DR. SLAGA: I thought it was good.

3 DR. MARKS: I thought it was nice. It  
4 was distilled down to something straightforward  
5 and very real.

6 DR. BERGFELD: Right.

7 DR. MARKS: Okay.

8 DR. HILL: What I like about it is it  
9 particularly captures the idea that it's guidance.  
10 It's a starting place, and then it will be  
11 tailored for each particular circumstance.

12 DR. MARKS: Anything else? Tom?

13 DR. SLAGA: It's lunchtime, isn't it, or  
14 almost?

15 DR. BERGFELD: Yes.

16 DR. SLAGA: Are you going to fax us  
17 lunch?

18 (Laughter.)

19 DR. MARKS: It's virtual, Tom.

20 DR. HILL: Go to the transporter room.

21 DR. ANSELL: We'll email you a sandwich.

22 DR. MARKS: Tom, we'll --

1 DR. SLAGA: What time do you want us  
2 back on the phone, at 1:00?

3 DR. BERGFELD: One, yes.

4 DR. MARKS: Well, yes.

5 DR. BERGFELD: Yeah, so that --

6 DR. MARKS: That's correct because  
7 that's 1:00 Eastern Standard Time obviously. It's  
8 11:33 here. We're supposed to do a conference  
9 call with Dr. Elias in San Francisco at 1:00  
10 Eastern Standard Time. Does that sound good?

11 DR. SLAGA: Ten-four.

12 DR. MARKS: Okay. Thanks, Tom.

13 DR. SLAGA: Bye.

14 DR. BERGFELD: Thank you, Tom. Merry  
15 Christmas if we don't hear from you again.

16 (Laughter.)

17 DR. MARKS: Okay. Shall I put this on  
18 hold?

19 DR. HELDRETH: No, you can just hang up.

20 DR. MARKS: How do I do that? Hey,  
21 Wilbur.

22 (Whereupon, at 11:34 a.m., the

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CERTIFICATE OF NOTARY PUBLIC

DISTRICT OF COLUMBIA

I, Irene Gray, notary public in and for the District of Columbia, do hereby certify that the forgoing PROCEEDING was duly recorded and thereafter reduced to print under my direction; that the witnesses were sworn to tell the truth under penalty of perjury; that said transcript is a true record of the testimony given by witnesses; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this proceeding was called; and, furthermore, that I am not a relative or employee of any attorney or counsel employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.

(Signature and Seal on File)

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Notary Public in and for the District of Columbia

My Commission Expires: April 30, 2016

