

# EXPERT PANEL FOR FRAGRANCE SAFETY MEETING

## DRAFT AGENDA

**Jan. 22-24, 2018**  
**Miami, FL**

Start 9:00 AM

- |           |                                                                                                                                                                                                                                            |            |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>1)</b> | <b>Discussion of the Meeting Schedule and Agenda Topics</b>                                                                                                                                                                                | <b>DVB</b> |
|           | a) Completion/Signing of Conflict of Interest Statement                                                                                                                                                                                    | <b>AMA</b> |
| <b>2)</b> | <b>Minutes (<a href="#">Tab 01</a>) (<a href="#">Tab 02</a>) (<a href="#">Tab 03</a>) (<a href="#">Tab 04</a>) (<a href="#">Tab 05</a>) (<a href="#">Tab 06</a>) (<a href="#">Tab 07</a>) (Tab 08) (Tab 09) (Tab 10) (Tab 11) (Tab 12)</b> | <b>AMA</b> |
| <b>3)</b> | <b>Follow-Up and Informational Items</b>                                                                                                                                                                                                   |            |
|           | a) Follow-Up List ( <a href="#">Tab 13</a> )                                                                                                                                                                                               | <b>AMA</b> |
| <b>4)</b> | <b>Standing Items (For Expert Panel information only; per Panel's request)</b>                                                                                                                                                             |            |
|           | a) RIFM Publications ( <a href="#">Tab 14</a> )                                                                                                                                                                                            | <b>AMA</b> |
| <b>5)</b> | <b>Presentation and Demonstration of Summary Table</b>                                                                                                                                                                                     | <b>SLC</b> |
|           | a) Safety Assessment Overview ( <b>152</b> Safety Assessments covering <b>202</b> materials) ( <a href="#">Tab 15</a> )                                                                                                                    |            |
|           | b) General Comments                                                                                                                                                                                                                        |            |
|           | i) Review spreadsheets                                                                                                                                                                                                                     | <b>SLC</b> |
| <b>6)</b> | <b>Review Safety Assessments Batch 1</b>                                                                                                                                                                                                   |            |

CAS#	Material Name	Tab
3452-97-9	3,5,5-Trimethyl-1-hexanol	<b>Tab 16</b>
5986-38-9	Ocimenol	<b>Tab 17</b>
103614-86-4	1-Naphthalenol, 1,2,3,4,4a,5,8,8a-octahydro-2,2,6,8-tetramethyl-	<b>Tab 18</b>
28462-85-3	endo-1,2,3,3-Tetramethylbicyclo[2.2.1]heptan-2-ol	<b>Tab 19</b>
<b>41199-19-3,</b> 71832-76-3, 643-53-8 and 670-24-6	1,2,3,4,4a,5,6,7-Octahydro-2,5,5-trimethyl-2-naphthalenol	<b>Tab 20</b>
83926-73-2	4-Cyclohexyl-2-methyl-2-butanol	<b>Tab 21</b>
<b>26160-83-8,</b> 26896-48-0	Bis(hydroxymethyl)tricyclo[5.2.1.0 <sup>2,6</sup> ]decane	<b>Tab 22</b>
16491-36-4	cis-3-Hexenyl butyrate	<b>Tab 23</b>
<b>33467-73-1</b> and 56922-80-6	cis-3-Hexenyl formate	<b>Tab 24</b>

CAS#	Material Name	Tab
<b>1708-82-3</b> , 3681-82-1 and 3681-71-8	Hex-3-enyl acetate	<b>Tab 25</b>
33467-74-2	cis-3-Hexenyl propionate	<b>Tab 26</b>
31501-11-8	cis-3-Hexenyl hexanoate	<b>Tab 27</b>
76238-22-7	(Z)-Non-6-enyl acetate	<b>Tab 28</b>
41519-23-7	cis-3-Hexenyl isobutyrate	<b>Tab 29</b>
<b>10094-41-4</b> and 53398-85-9	(Z)-Hex-3-enyl 2-methylbutyrate	<b>Tab 30</b>
<b>68555-65-7</b> and 67674-47-9	(E,Z)-2,6-Nonadien-1-ol acetate	<b>Tab 31</b>
<b>91482-37-0</b> , 3239-35-8, 3239-37-0	(E)-6,10-Dimethylundeca-5,9-dien-2-yl acetate	<b>Tab 32</b>
<b>106-29-6</b> and 999-40-6	Geranyl butyrate	<b>Tab 33</b>
<b>105-86-2</b> and 2142-94-1	Geranyl Formate	<b>Tab 34</b>
<b>105-90-8</b> and 105-91-9	Geranyl propionate	<b>Tab 35</b>
29548-30-9	Farnesyl acetate	<b>Tab 36</b>
<b>105-87-3</b> and 141-12-8	Geranyl acetate	<b>Tab 37</b>
50816-18-7	9-Decenyl acetate	<b>Tab 38</b>
68141-27-5	10-Undecenoic acid, heptyl ester	<b>Tab 39</b>
80118-06-5	1,3-Dimethylbut-3-enyl isobutyrate	<b>Tab 40</b>
68844-96-2	1,3-Benzodioxole-5-propanol, alpha-methyl-, 5-acetate	<b>Tab 41</b>
120-45-6	alpha-Methylbenzyl propionate	<b>Tab 42</b>
7775-39-5	alpha-Methylbenzyl isobutyrate	<b>Tab 43</b>
629-33-4	Hexyl formate	<b>Tab 44</b>
142-92-7	Hexyl acetate	<b>Tab 45</b>
2445-76-3	Hexyl propionate	<b>Tab 46</b>
2639-63-6	butanoic acid	<b>Tab 47</b>
112-06-1	Heptyl acetate	<b>Tab 48</b>
112-32-3	Octyl formate	<b>Tab 49</b>
112-14-1	Octyl acetate	<b>Tab 50</b>
110-39-4	Octyl butyrate	<b>Tab 51</b>
143-13-5	Nonyl acetate	<b>Tab 52</b>
112-17-4	Decyl acetate	<b>Tab 53</b>
112-66-3	Lauryl acetate	<b>Tab 54</b>
10250-45-0	4-Heptanol, 2,6-dimethyl-,acetate	<b>Tab 55</b>
4864-61-3	3-Octyl acetate	<b>Tab 56</b>
<b>142-09-6</b>	<b>Hexyl methacrylate</b>	<b>Tab 57</b>
61931-81-5	cis-3-Hexenyl lactate	<b>Tab 58</b>
20962-70-3	4-Pentenoic acid, 2-acetyl-4-methyl-, ethyl ester	<b>Tab 59</b>
64001-15-6	Tricyclodecanyl acetate	<b>Tab 60</b>
72183-75-6	1-Methyl-2-(1-methylpropyl)cyclohexyl acetate	<b>Tab 61</b>
42288-75-5	Cyclohexyl phenylacetate	<b>Tab 62</b>

CAS#	Material Name	Tab
122760-84-3	Tricyclo[3.3.1.1.(3.7)]decan-2-ol, 4-methyl-8-methylene-	Tab 63
<b>63500-71-0</b> , 65418-69-1 (cis), 65418-70-4 (trans)	2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol	Tab 64
<b>8007-35-0</b> , 80-26-2 and 7785-54-8	Terpinyl acetate (Isomer mixture)	Tab 65
<b>58985-18-5</b> and 80-25-1	Dihydroterpinyl acetate	Tab 66
80-27-3	Terpinyl propionate	Tab 67
2153-28-8	Terpinyl butyrate	Tab 68
2153-26-6	Terpinyl formate	Tab 69
7774-65-4	Terpinyl isobutyrate	Tab 70

#### 7) RIFM Safety Evaluation Process

- |                                                           |     |
|-----------------------------------------------------------|-----|
| a) Presentation RIFM Safety Assessment Update and Metrics | JM  |
| b) Presentation on Low Exposure Materials                 | AMA |

#### 8) Introduction to Safety Assessment approach to Naturals Complex Substances (webinar) (Tab 71)

#### 9) Review Safety Assessments Batch 2

CAS#	Material Name	Tab
<b>87731-18-8</b> , 84681-92-5	Cyclooct-4-en-1-yl methyl carbonate	Tab 72
105-53-3	Diethyl malonate	Tab 73
10031-87-5	2-Ethylbutyl acetate	Tab 74
103-09-3	2-Ethylhexyl acetate	Tab 75
90397-38-9	2-Methylpentyl 2-methylvalerate	Tab 76
134-28-1	Guaiyl acetate	Tab 77
67674-46-8	6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	Tab 78
<b>97358-54-8</b> , 97358-55-9	(E)-1-(1-Methoxypropoxy)hex-3-ene	Tab 79
28069-74-1	Acetaldehyde ethyl cis-3-hexenyl acetal	Tab 80
63449-64-9	(Z,Z)-1,1'-[Ethylidenebis(oxy)]di(hex-3-ene)	Tab 81
589-38-8	3-Hexanone	Tab 82
123-19-3	4-Heptanone	Tab 83
110-43-0	2-Heptanone	Tab 84
106-35-4	3-Heptanone	Tab 85
111-13-7	2-Octanone	Tab 86
106-68-3	3-Octanone	Tab 87
112-12-9	2-Undecanone	Tab 88

CAS#	Material Name	Tab
593-08-8	2-Tridecanone	Tab 89
2345-28-0	2-Pentadecanone	Tab 90
564-94-3	2-Formyl-6,6-dimethylbicyclo(3.1.1)hept-2-ene	Tab 91
30772-79-3	Octahydro-4,7-methano-1H-indenecarbaldehyde	Tab 92
123-05-7	2-Ethylhexanal	Tab 93
7786-29-0	2-Methyloctanal	Tab 94
5435-64-3	3,5,5-Trimethylhexanal	Tab 95
19009-56-4	2-Methyldecanal	Tab 96
110-41-8	2-Methylundecanal	Tab 97
68141-14-0	Nonanal, 5-ethyl-2-methyl-	Tab 98
107-75-5	Hydroxycitronellal	Tab 99
62439-41-2	6-Methoxy-2,6-dimethylheptan-1-al	Tab 100
3613-30-7	Methoxycitronellal	Tab 101
1128-08-1	3-Methyl-2-(n-pentanyl)-2-cyclopenten-1-one	Tab 102
488-10-8 and 6261-18-3	cis-Jasmone	Tab 103
11050-62-7	Isojasmone	Tab 104
95962-14-4	2-(p-Menth-1-ene-10-yl)cyclopentanone	Tab 105
68845-36-3, 17369-60-7, 39121-42-1, 39121-44-3	2-Cyclohexen-1-one, 3,5-diethyl-5,6-dimethyl-	Tab 106
89-81-6, 4573- 50-6, 6091-50- 5	Piperitone	Tab 107
16429-07-5	2-Hexylidenecyclohexan-1-one	Tab 108
84642-57-9	2-[(3,3,5-Trimethylcyclohexyl)acetyl]cyclopentan-1-one	Tab 109
13380-94-4	Tricyclo[5.2.1.0 <sup>2,6</sup> ]decan-8-one	Tab 110
41724-19-0	Octahydro-7-methyl-1,4-methanonaphtalen-6(2H)-one	Tab 111
51519-65-4	4,4a,6,7,8,8a-Hexahydro-1,4-methanonaphthalen-5(1H)-one	Tab 112
22690-27-3	1,2,3,4,5,6,7,8,9,10-Decahydro-5,9-methanobenzocycloocten-11-one	Tab 113
65405-72-3	1,2,3,4,4a,7,8,8a-Octahydro-2,4a,5,8a-tetramethyl-1-naphthyl formate	Tab 114
5413-60-5, 54830-99-8, 2500-83-6	Acetoxidydrodicyclopentadiene (Mixture of Isomers)	Tab 115
17511-60-3, 68912-13-0, 67634-24-6	Tricyclodecenyl propionate	Tab 116
113889-23-9	Butanoic acid, 3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl ester	Tab 117
67634-20-2, 68039-39-4	3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-inden-5-yl isobutyrate	Tab 118

CAS#	Material Name	Tab
68039-45-2, 68039-44-1	3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-inden-6-yl pivalate	Tab 119
58096-47-2	3a,7-Methano-3aH-cyclopentacycloocten-3-ol, decahydro-1,1,7-trimethyl-, formate	Tab 120
20009-20-5	Cyclohexanemethanol, 4-(acetyloxy)-a,a,4-trimethyl-, acetate	Tab 121
72903-27-6	Diethyl 1,4-cyclohexane dicarboxylate	Tab 122
58567-11-6	Formaldehyde cyclododecyl ethyl acetal	Tab 123
338735-71-0, 35143-77-6 (mixture)	8H-Indeno(4,5-B)furan,2,3,3a,4,5,5a,6,7,8a,9-decahydro-2,6,6,7,8,8-hexamethyl Mixture of isomers	Tab 124
476332-65-7, 647828-16-8 (mixture)	2H-Indeno[4,5b] furan, decahydro-2,2,6,6,7,8,8-heptamethyl and Indeno[4,3a-b]furan,decahydro-2,2,7,7,8,9,9-heptamethyl-	Tab 125
6790-58-5, 3738-00-9	Naphtho[2,1-b]furan, dodecahydro-3a,6,6,9a-tetramethyl-, (3aR,5aS,9aS,9bR)-	Tab 126
7158-25-0	3a,4,4a,5,8,8a,9,9a-Octahydro-4,9:5,8-dimethano-1H-benz[f]indene	Tab 127
4630-07-3	Valencene	Tab 128
87-44-5	$\beta$ -Caryophyllene	Tab 129
673-84-7, 3016-19-1 (mixture)	2,6-Dimethylocta-2,4,6-triene	Tab 130

#### 10) Presentation on Chemical Grouping and Read Across by M. Date

#### 11) Presentation by A. Lapczynski – Update on Environmental Research Projects

#### 12) Legal review

TM

- Insurance Coverage for Expert Panel
- Expert Panel Communications Policy (Tab 131)
- Interaction between Expert Panel and RIFM Board of Directors: What Level is Appropriate and Desirable?
- Legal Issues in the Workplace
- Review of Conflict of Interest Policy (General Discussion, Responses to Questions Raised by Panel)
- Status and Timing of Expert Panel Self-Assessment Survey
- Status and Timing of Independent Audit of Expert Panel's Compliance with its Policies and Procedures
- Miscellaneous Issues (Q and A with Panel)

#### 13) Update on QRA2 Implementation

- A.M Api Presentation on QRA2

AMA

14) Review Safety Assessments – Batch 3

CAS#	Material Name	Tab
94134-03-9	cis-3-Octenyl propionate	Tab 132
<b>94201-19-1</b> and 91069-37-3	1-Oxaspiro[4.5]decan-2-one, 8-methyl-	Tab 133
91069-40-8	1-Oxaspiro[4.5]decan-2-one, 8-ethyl-, trans-	Tab 134
4625-90-5	1-Oxaspiro[4.5]decan-2-one, 8-(1-methylethyl)-, trans-	Tab 135
6051-03-2	Hexahydro-3H-benzofuran-2-one	Tab 136
54491-17-7	3-Ethylhexahydro-2(3H)-benzofuranone	Tab 137
90530-04-4	2-Propanol, reaction products with boron trifluoride and 5-ethylidenebicyclo[2.2.1]hept-2-ene	Tab 138
84434-18-4	N,2-Dimethyl-N-phenylbutyramide	Tab 139
406488-30-0	Butanamide, 2-ethyl-N-methyl-N-(3-methylphenyl)-	Tab 140
68228-09-1	Ethyl 2-[[[2,4(or3,5)-dimethyl-3-cyclohexen-1-yl]methyl]amino]benzoate	Tab 141
1129-62-0	2-Butanone, phenylhydrazone	Tab 142
95-16-9	Benzothiazole	Tab 143
103-84-4	Acetanilide	Tab 144
1188-02-9	2-Methylheptanoic acid	Tab 145
1561-11-1	Hexanoic acid, 4-methyl-	Tab 146
16493-80-4	4-Ethyl octanoic acid	Tab 147
45019-28-1	4-Methylnonanoic acid	Tab 148
4536-23-6	2-Methylhexanoic acid	Tab 149
54947-74-9	4-Methyloctanoic acid	Tab 150
97-61-0	2-Methylvaleric acid	Tab 151
565-62-8	3-Methylpent-3-en-2-one	Tab 152
<b>81786-75-6</b> , 81786-73-4, 86115-11-9, 81786-74-5 mixture	(Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one	Tab 153
54815-13-3	Nonane, 1,1-diethoxy-	Tab 154
142653-61-0	3-(cis-3-Hexenyloxy)propanenitrile	Tab 155
<b>6789-80-6</b> , 4440- 65-7 and 69112- 21-6	3-Hexenal	Tab 156
6728-31-0	4-Heptenal	Tab 157
2277-19-2	cis-6-Nonenal	Tab 158
<b>65405-70-1</b> , 21662-09-9 and 30390-50-2	cis-4-Decen-1-al	Tab 159
58296-81-4	8-Undecenal	Tab 160
143-14-6	9-Undecenal	Tab 161
<b>21944-98-9</b> and 30390-51-3	(Z)-4-Dodecenal	Tab 162
4501-58-0	2,2,3-Trimethyl-3-Cyclopentene-1-acetaldehyde	Tab 163
67845-46-9	(4-Methylphenoxy)acetaldehyde	Tab 164
81782-89-0	2,4,4,7-Tetramethylnona-6,8-dien-3-one	Tab 165
502847-01-0	Spiro[5.5]undec-8-en-1-one, 2,2,7,9-tetramethyl-	Tab 166
42370-07-0	1-(3,3-Dimethylbicyclo[2.2.1]hept-2-yl)ethane-1-one	Tab 167

CAS#	Material Name	Tab
144020-22-4 and 28371-99-5	Methyl 2,6,10-trimethylcyclododeca-2,5,9-trien-1-yl ketone	Tab 168
615-13-4	2H-Inden-2-one, 1,3-dihydro-	Tab 169
131812-67-4, 131812-52-7	2,4-Dimethyl-2-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-1,3-dioxolane	Tab 170

#### 15) Human Health Research Projects

- a) Epidemiology
  - i) Validation of Clinical Relevance Algorithm MB
- b) Elicitation Threshold Study on Eugenol (Tab 171) (Tab 172) (Tab 173) AMA
- c) **Presentation by R. Parakhia – In vitro Dermal Sensitization Research Project Update (webinar)**

#### 16) Presentation by D. Botelho – Respiratory Research Projects

#### 17) Presentation RIFM TTC Research Update by D. Botelho and A. Patel (webinar)

#### 18) Expert Panel Executive Session

#### 19) IFRA Standards

- a) Furfural – BMD developed; identify NOAEL (Tab 174)

#### 20) Future Meeting Dates

- Monday – Wednesday      May 21-23, 2018      New Jersey
- Monday – Wednesday      Aug. 27-29, 2018      Stockholm
- Monday – Wednesday      Jan. 28-30, 2019      Miami, FL
- Monday – Wednesday      May 20-22, 2019      Rome
- Monday – Wednesday      Sept. 23-25, 2019      New Jersey