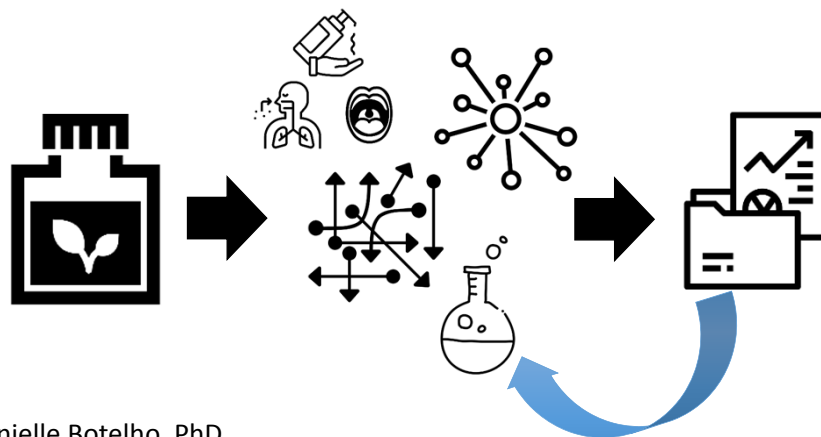


How to Tackle RIFM NCS Risk Assessment



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June 04, 2019
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RIFM has a long history of publishing data on fragrance materials.



1973
First Monograph

STANDARD FOR PERFUMING INGREDIENTS

ACETATE C-8

Chemical: $C_{16}H_{32}O_2$
Molecular Weight: 240.44
CAS Registry Number: 1108-91-7

Concentration in final product (%)	Male	Female	Child	Infant
0.01	0.01	0.01	0.01	0.01
0.02	0.02	0.02	0.02	0.02
0.05	0.05	0.05	0.05	0.05
0.10	0.10	0.10	0.10	0.10

Analytical data: Gas chromatography, RIFM no. 71-5; infrared, RIFM no. 71-5.

2003
First Group Summary

Food and Chemical Toxicology

Volume 42, Number 1, January 2003

2014
First Safety Assessment on Individual Ingredients

RIFM FRAGRANCE INGREDIENT SAFETY ASSESSMENT
3-(n-butyl-butylphenyl)-2-methylpropanaldehyde (n-BMCA)
CAS Registry Number 62318-63-4

Summary: This use of this material under current use conditions is supported by the existing information.

Human Health Safety Assessment

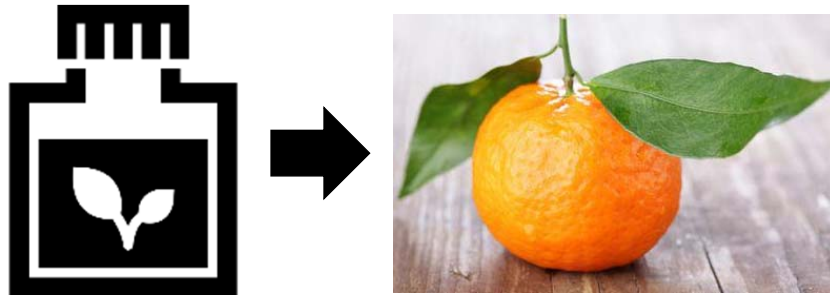
Route of Exposure	Exposure Level	Exposure Frequency	Exposure Duration	Exposure Scenario
Inhalation	0.001 mg/kg/day	365 days/year	70 years	General population
Dermal	0.001 mg/kg/day	365 days/year	70 years	General population
Oral	0.001 mg/kg/day	365 days/year	70 years	General population

Environmental Safety Assessment

Ecotoxicity: No adverse effects were observed in acute and chronic toxicity studies. The chemical is not expected to be bioaccumulative. The chemical is not expected to be persistent in the environment.



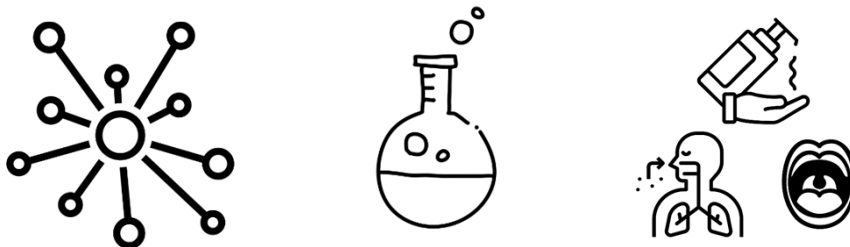
RIFM will pilot our proposed approach examining citrus materials.




3




Composition, test data, and exposure are driving factors in prioritization.



4



Composition is complex.



CC(C)C1=CC=CC=C1C
CC(C)=C1C=CC=C1C

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5



We will start with what we know about NCS complexities and diversity.



Food and Chemical Toxicology **Fragrance Material Safety Assessment Center**

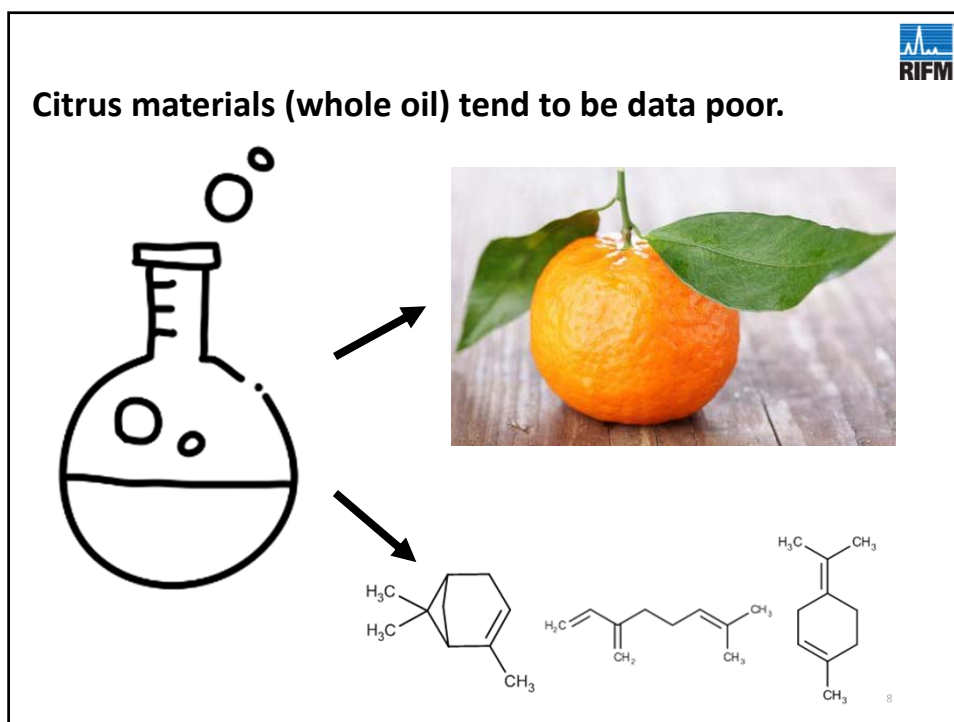
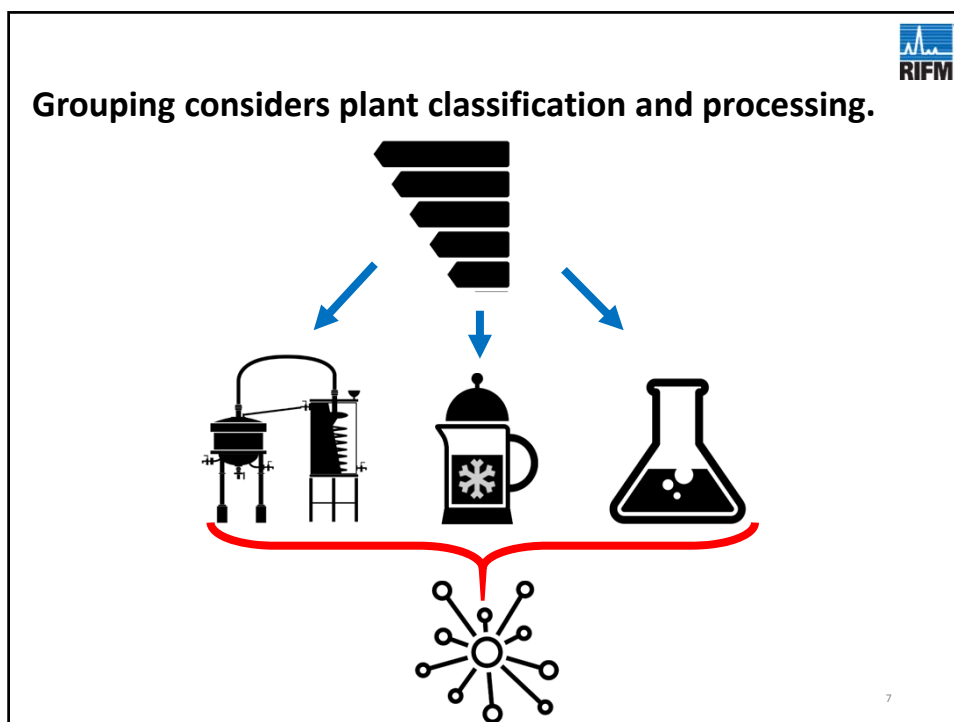
Safety Assessment Sheet Database


Search Safety Assessment Sheets

To access the Safety Assessment Sheets, use the pull-down menu option to search together CAS Number or chemical name or synonym.


The purpose of the RIFM safety assessment is to ensure the safe use of fragrance materials in consumer products. Assessments of the data supporting the safe use of fragrance materials follow the updated Criteria Document. The Criteria Document provides guidance on conducting safety assessments and is designed to incorporate the best science to appropriately evaluate fragrance ingredients using the latest testing strategies and methods. The assessments may be found by using the search feature above. Previously published assessments may be found at the links below.

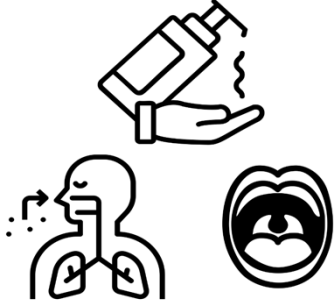
6





Understanding exposure is a critical step in evaluation.





9



RIFM science is scrutinized by an international panel of scientific experts

Dan Liebler, PhD
Vanderbilt University

Jochen Buschmann, PhD
Fraunhofer Institute

Magnus Bruze, MD, PhD
Malmo University Hospital



Maria Lucia Dagli, PhD
University of Sao Paulo, Brazil

Yoshiki Tokura, MD, PhD
Hamamatsu University School of Medicine, Japan

Wolfgang Dekant, PhD
University of Wurzburg. Inst. For Toxicology, Germany

Allison D. Fryer, PhD
Oregon Health Sciences University

I. Glenn Sipes, PhD (Vice Chair)
University of Arizona


Donald V. Belsito, MD (Chair)
Columbia University Medical Center

Terry Schultz, PhD
University of Tennessee

Trevor M. Penning, PhD
University of Pennsylvania

Allen Burton, PhD
University of Michigan

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The Expert Panel for Fragrance Safety provides the scientific authority and objectivity to RIFM's work

Search


EXPERT PANEL
for FRAGRANCE SAFETY

[Home](#) [Vision/Mission](#) [Members](#) [Policies and Guidelines](#) [Meetings](#)

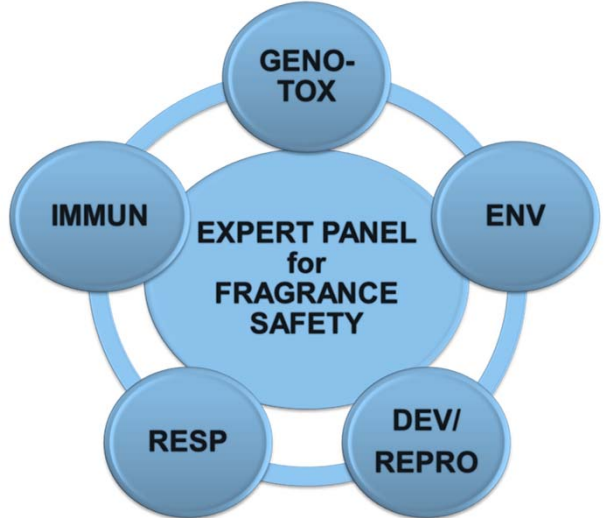


Our Mission

To conduct an independent, unbiased assessment of fragrance material safety in accordance with generally accepted scientific criteria, standards and methodologies



The Expert Panel for Fragrance Safety consults additional experts across multiple fields of study



```
graph TD; EP[EXPERT PANEL for FRAGRANCE SAFETY] --- GENO[GENO-TOX]; EP --- ENV[ENV]; EP --- DEV[DEV/REPRO]; EP --- RESP[RESP]; EP --- IMMUN[IMMUN];
```



RIFM will approach the complexities and diversity of NCSs with a thorough scientific and global perspective.

