

Dermal Sensitization

Quantitative Risk
Assessment (QRA) For
Fragrance Ingredients: IDEA
QRA Workshop Outcome
March 2013

Anne Marie Api, PhD
Vice President, Human Health Sciences
Research Institute for Fragrance Materials, Inc.
Tel.: 201.689.8089 Fax: 201.689.8090
amapi@rifm.org

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- Review current QRA model for dermal sensitization to better explain:
 - SAFs
 - Inter-individual variability
 - Matrix effects
 - Use effects





Exposure

- New exposure data (Hall, 2011) should be considered.
- RIFM sponsored work to investigate the effects of aggregate dermal exposure.
 This must be incorporated into the methodology.
 - In order to incorporate dermal aggregate exposure, modification of the SAFs is needed



QRA Refinement: SAFS



- Transparency in assignment of SAFS
- Modify in order to include aggregate exposure
- Inter-individual variability
 - Is there a need to deviate from generally accepted uncertainty factors used in general toxicology?
 - Has compromised skin been adequately addressed?



QRA Refinement: SAFS



- Product Matrix
 - Has being overly conservative lead to confusion?
- Use Matrix
 - Compromised Skin was included in this SAF; if accounted in the inter-individual variability, then must be sure that there is no "double accounting"





- Communication expand the dialogue with international dermatologists.
- Relationship between induction and elicitation thresholds
 - ROAT on eugenol in progress
 - ROAT on citral planned





- Effectiveness of the QRA (discuss at May 2014 Workshop)
 - Prospective study designed with ESCA & IVDK
- Retail Consumer Products Only (discuss at May 2014 Workshop)
 - The method does not apply to occupational use of consumer products or consumer products that are covered by other regulations (e.g. medical devices, OTC drugs, drugs).
 - Occupational exposure to consumer products



Summary: Key Actions March 2013



- Include aggregate exposure in the QRA
 - In order to incorporate dermal aggregate exposure, modification of the SAFs is needed
- Review supporting information for SAFs to explicitly include application to damaged skin
- Communication expand the dialogue with international dermatologists
- Explore relationship between induction and elicitation thresholds
- Measure effectiveness of the QRA in limiting the induction of contact allergy
- Incorporate occupational exposure to consumer products



More Information





Research Institute for Fragrance Materials, Inc. Tel.: +1-201.689.8089

amapi@rifm.org RIFM: www.rifm.org

