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*October 18th, 2023*

*Re: #401 DIHYDROJASMONE*

*BRI # 401 Dihydrojasmane contains 200 ppm Amylcyclopentenone as a production related impurity.*

*As per the IFRA Code of Practice, IFRA has been informed and they have referred it to the IFRA Risk Management Task Force.*

*RIFM has also been consulted and determined safe maximum levels of Amylcyclopentenone in finished products. Those values have been applied to BRI 401 with an assumed 200 ppm Amylcyclopentenone.*

*Page 2 of this letter lists those safe use levels.*

*A copy of the Amylcyclopentenone IFRA standard is also attached to this letter for your convenience.*

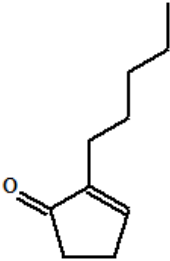
*I hope this statement is satisfactory. If you need additional information, please do not hesitate to contact me.*

*Kind Regards,  
Joseph Bania  
Regulatory Affairs Manager  
(203) 830-4000  
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BRI*

*Safe maximum use levels in final products of Dihydrojasmane with 200 ppm of Amylcyclopentenone*

Product Type	Maximum % Dihydrojasmane with Amylcyclopentenone impurity	Maximum ppm Dihydrojasmane with Amylcyclopentenone impurity
Category 1 - products applied to the lips (lipstick)	0.25	2500
Category 2 - Products applied to the axillae	0.05	500
Category 3 - Products applied to the face/body using finger tips	1.45	14500
Category 4 - Products related to fine fragrances	1.35	13500
Category 5A - Body Lotion Products applied to the face and body using the hands (palms), primarily leave-on	0.35	3500
Category 5B - Face Moisturizer Products applied to the face and body using the hands (palms), primarily leave-on	0.35	3500
Category 5C - Hand Cream Products applied to the face and body using the hands (palms), primarily leave-on	0.35	3500
Category 5D - Baby Cream, Oil, Talc	0.35	3500
Category 6 - Products with oral and lip exposure	0.8	8000
Category 7 - Products applied to the hair with some hand contact	2.8	28000
Category 8 - Products with significant ano-genital exposure (tampon)	0.15	1500
Category 9 - Products with body and hand exposure, primarily rinse off (bar soap)	2.7	27000
Category 10A - Household Care	9.6	96000
Category 10B - Aerosol Air Freshener	9.6	96000
Category 11 - Products with intended skin contact but minimal transfer of fragrance to skin from inert substrate (Feminine hygiene pad)	5.35	53500
Category 12 - Other Air Care Products Products not intended for direct skin contact, minimal or insignificant transfer to skin	Not Restricted	Not Restricted

**Amylcyclopentenone**

<b>CAS-No.:</b>	25564-22-1 The scope of this Standard includes, but is not limited to the CAS number(s) indicated above; any other CAS number(s) used to identify this fragrance ingredient should be considered in scope as well.	<b>Molecular formula:</b>	C <sub>10</sub> H <sub>16</sub> O
		<b>Structure:</b>	
<b>Synonyms:</b>	2-Cyclopenten-1-one, 2-pentyl-2-Pentyl-2-cyclopentenone 2-Pentylcyclopent-2-en-1-one		

<b>History:</b>	<b>Publication date:</b>	2008 (Amendment 43)	<b>Previous Publications:</b>	1987 1994 2007
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<b>Implementation dates:</b>	<b>For new submissions*:</b>	Not applicable.
	<b>For existing fragrance compounds*:</b>	Not applicable.
	*These dates apply to the supply of fragrance mixtures (formulas) only, not to the finished consumer products in the marketplace.	

<b>RECOMMENDATION:</b>	<b>PROHIBITION</b>
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<b>FRAGRANCE INGREDIENT PROHIBITION:</b>	Amylcyclopentenone should not be used as a fragrance ingredient.
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<b>CONTRIBUTIONS FROM OTHER SOURCES:</b>	<b>NONE TO CONSIDER (SEE ALSO THE SECTION ON CONTRIBUTIONS FROM OTHER SOURCES IN CHAPTER 1 OF THE GUIDANCE FOR THE USE OF IFRA STANDARDS)</b>
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**Amylcyclopentenone****INTRINSIC PROPERTY DRIVING RISK DERMAL SENSITIZATION  
MANAGEMENT:****EXPERT PANEL FOR FRAGRANCE SAFETY RATIONALE / CONCLUSION:**

The Expert Panel for Fragrance Safety reviewed all the available data for Amylcyclopentenone and recommends not to use Amylcyclopentenone as or in fragrance ingredients in any finished product application.

**REFERENCES:**

The IFRA Standard on Amylcyclopentenone is based on at least one of the following publications:

- The RIFM Safety Assessment on Amylcyclopentenone if available at the RIFM Safety Assessment Sheet Database: <http://fragrancematerialsafetyresource.elsevier.com>
- Api A.M., Belsito D., Bruze M., Cadby P., Calow P., Dagli M. L., Dekant W., Dent M., Ellis G., Fryer A. D., Fukayama M., Griem P., Hickey C., Kromidas L., Lalko J., Liebler D.C., Miyachi Y., Politano V.T., Renskers K., Ritacco G., Salvito D., Schultz T.W., Sipes I. G., Smith B., Vitale D., Wilcox D.K. (2015). Criteria for the Research Institute for Fragrance Materials, Inc. (RIFM) safety evaluation process for fragrance ingredients. *Food Chem Toxicol.* 2015 Aug;82 Suppl:S1-S19 ([http://fragrancematerialsafetyresource.elsevier.com/sites/default/files/Criteria\\_Document\\_Final.pdf](http://fragrancematerialsafetyresource.elsevier.com/sites/default/files/Criteria_Document_Final.pdf)).
- IDEA project (International Dialogue for the Evaluation of Allergens) Final Report on the QRA2: Skin Sensitisation Quantitative Risk Assessment for Fragrance Ingredients, September 30, 2016 (<http://www.ideaproject.info/uploads/Modules/Documents/qra2-dossier-final--september-2016.pdf>).
- Salvito D.T., Senna R. J., Federle T.W. (2002). A framework for prioritizing fragrance materials for aquatic risk assessment. *Environ Toxicol Chem.* 2002;21:1301-1308 (<https://www.ncbi.nlm.nih.gov/pubmed/12069318>).

Additional information on the application of IFRA Standards is available in the Guidance for the use of IFRA Standards, publicly available at [www.ifrafragrance.org](http://www.ifrafragrance.org).