

Quinoline

CAS-No.:	91-22-5 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.
Synonyms:	1-Benzazine 2,3-Benzopyridine Benzo(b)pyridine Chinoleine Leucoline Quinoleine

History:	Publication date:	2010 (Amendment 45)	Previous Publications:	Not applicable.
			r ublications.	

Implementation	For new creation*:	August 11, 2010
dates:	For existing creation*:	August 11, 2011
	*These dates apply to the supply of fragrance mixtu	res (formulas) only, not to the
	finished consumer products in the marketplace.	

RECOMMENDATION:	PROHIBITION	
FRAGRANCE INGREDIENT PROHIBITION:	Quinoline should not be used as a fragrance ingredient.	
CONTRIBUTIONS FROM OTHER SOURCES:	NONE TO CONSIDER BEYOND TRACES (SEE ALSO THE SECTION ON CONTRIBUTIONS FROM OTHER SOURCES IN CHAPTER 1 OF THE GUIDANCE FOR THE USE OF IFRA STANDARDS)	
INTRINSIC PROPERTY DRIVING RISK	CARCINOGENICITY, MUTAGENICITY	

EXPERT PANEL FOR FRAGRANCE SAFETY RATIONALE / CONCLUSION:

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

REFERENCES:

MANAGEMENT:

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



Quinoline

- The RIFM Safety Assessment on Quinoline is 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 (doi: 10.1016/j.fct.2014.11.014). (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).
- Commission Directive 2009/2/EC (31st ATP to Directive 67/548/EEC).

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.