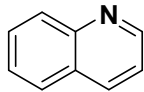


## Quinoline

<b>CAS N°:</b>	91-22-5	<b>Empirical formula:</b>	C <sub>9</sub> H <sub>7</sub> N
<b>Structure:</b>			
<b>Synonyms:</b>	1-Benzazine 2,3-Benzopyridine Benzo(b)pyridine Chinoleine Leucoline Quinoleine		

<b>History:</b>	Initial reviews:	New Standard	
	Current revision date:	June 11, 2010	
	Implementation date:	For new submissions*:	August 11, 2010
		For existing fragrance compounds*:	August 11, 2011
	Next review date	Not applicable	

\* This date applies to the supply of fragrance compounds (formulas) only, not to the finished products in the marketplace.

### RECOMMENDATION:

**PROHIBITED**

### RESTRICTIONS:

<b>Limits in the finished product:</b>			
<u>Skin contact products:</u>			
Leave on products:	N/A	Rinse-off products:	N/A
		<i>Including household cleaning products</i>	
<u>Non skin contact products:</u>	N/A		
<b>Note box:</b>			
The material is considered as a carcinogenic / mutagenic agent and had only minor reported use in fragrances. REXPAN agreed to the IFRA policy to ban the material for the given effects and not further elaborate on a risk management policy.			
<b>Fragrance material specifications:</b>		N/A	

### CONTRIBUTION FROM OTHER SOURCES:

None to consider (see also the note on contributions from other sources in the **Introduction to the IFRA Standards**).

### CRITICAL EFFECT:

**CARCINOGENICITY, MUTAGENICITY**

### REXPAN RATIONALE / CONCLUSION:

IFRA ban noted – REXPAN, June 2010.

### REFERENCES:

Commission Directive 2009/2/EC (31<sup>st</sup> ATP to Directive 67/548/EEC)