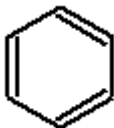


Benzene

CAS N°:	71-43-2	Empirical formula:	C ₆ H ₆
Structure:			
Synonyms:	Benzol		

History:	Initial reviews:	1988	
	Current revision date:	January 2004	
	Implementation date:	For new submissions*:	May 6, 2004
		For existing fragrance compounds*:	May 6, 2005
	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:

Limits in the finished product:			
<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		
Note box:			
The material should not be used as fragrance ingredient for any application.			
Fragrance material specifications:	<p>The level of benzene has to be kept as low as practicable and should never exceed 1 ppm in the fragrance compound.</p> <p>Since the introduction of the original restriction on the use of benzene by IFRA in 1988, there have been significant changes in manufacturing practices that permit the reduction of the maximum permitted level of this substance. These include use of technological improvements allowing replacement of this solvent for the extraction of fragrance materials and in eliminating its presence as an impurity in alternative extraction solvents.</p>		

Benzene**CONTRIBUTION FROM OTHER SOURCES:**

None to consider

CRITICAL EFFECT:**CARCINOGENICITY****REXPAN RATIONALE / CONCLUSION:**

IFRA ban noted - REXPAN, January 2004.

REFERENCES:

1) IARC (International Agency for Research on Cancer) Monographs Vol 7, p. 203 (1974); Vol 29, p. 93 and 391 (1982); Suppl. 7, p. 120 (1987)

2) CSTEE (Scientific Committee on Toxicity, Ecotoxicity and the Environment), Opinion on the results of the Risk Assessment of Benzene carried out in the framework of Council Regulation (EEC) 793/93 as adopted on Feb., 6, 2003