

Musk xylene

CAS N°:	81-15-2	Empirical formula:	C ₁₂ H ₁₅ N ₃ O ₆
Structure:			
Synonyms:	Acetophenone, 3,5-dinitro-2,6-dimethyl-4- <i>tert</i> -butyl-5- <i>tert</i> -butyl-2,4,6-trinitro- <i>m</i> -xylene 1-(4- <i>tert</i> -Butyl-2,6-dimethyl-3,5-dinitrophenyl)ethanone 1-[4-(1,1-Dimethylethyl)-2,6-dimethyl-3,5-dinitrophenyl]ethanone 3,5-Dinitro-2,6-dimethyl-4- <i>tert</i> -butylacetophenone Musk Xylol		

History:	Initial reviews:	New Standard	
	Current revision date:	2009	
	Implementation date:	For new submissions*:	August 7, 2009
		For existing fragrance compounds*:	August 7, 2010
	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

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:

vPvB

REXPAN RATIONALE / CONCLUSION:

Ongoing research on the fragrance ingredient musk xylene has provided evidence over time that it fulfills the criteria for being classified vPvB (Environmental half-life >180 days; BCF>5000).

Musk Xylene, as of October 8, 2008, has been identified by the European Chemicals Bureau as a material requiring authorization under REACH due to its properties as a vPvB

Based on its potential detrimental environmental impact the REXPAN has concluded that the material should not be used as a fragrance ingredient.

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REFERENCES:

PBT draft Addendum to the final report (2005) of the Risk Assessment (PBT assessment), January 2008 (the Netherlands National Institute for Public health and Environment, RIVM).

ECHA (European Chemicals Agency, , Member State Committee, Substances of Very High Concern support document for identification of 5-tert-butyl-2,4,6-trinitro-m-xylene, Adopted on October 8, 2008
(http://echa.europa.eu/doc/candidate_list/svhc_supdoc_muskxylene_publication.pdf.)