Drug Status Report

**Drug:** Methyleneoxyxathinone

**Drug Name Status:** Methyleneoxyxathinone is the common name.

**Chemical Name:** α-Methyl-1,3-benzodioxole-5-(2-oxoethanamine)

**Chemical structure:**

![Chemical structure of Methyleneoxyxathinone and Methyleneoxyamphetamine]

**Molecular Formula:** C_{10}H_{11}NO_{3}

**Pharmacological class / Application:** amphetamine-like stimulant\(^1\)

**International status**

US: The substance is not listed on the US Controlled Substances Act and is not mentioned on the DEA website. However, methylenedioxyxyxathinone may be controlled in the US due to the analogue provisions in the CSA.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Item 1 of Schedule III to the CDSA is, “Amphetamines, their salts, derivatives, isomers and analogues and salts of derivatives, isomers and analogues.” Subitem 1(5) is 3,4-methylenedioxoamphetamine which is also known as MDA (structure shown above). Methyleneoxyxathinone is analogous to MDA in that it contains the same structure with an additional oxygen. Methyleneoxyxathinone is therefore an analogue of MDA and is included in item 1 of Schedule III to the CDSA.

Recommendation: Methyleneoxyxathinone is included in item 1 of Schedule III to the CDSA

\(^1\) Dal Cason TA, Young R, Glennon RA., Pharmacol Biochem Behav. 1997 Dec;58(4):1109-16.
and is a controlled substance.

October 16, 2009