Drug Status Report

**Drug:** 2-Methylamino-1-(3,4-methylenedioxy)-propiophenone

**Drug Name Status:** 2-Methylamino-1-(3,4-methylenedioxy)-propiophenone is the common name

**Other Names:** Methylone; Explosion

**Chemical Name:** N,N\textsubscript{\textalpha}-Dimethyl-1,3-benzodioxole-5-(2-oxoethanamine)

**Chemical structure:**

![Chemical structure images]

**Molecular Formula:** C\textsubscript{11}H\textsubscript{13}NO\textsubscript{3}

**Pharmacological class / Application:** stimulant

**International status:**

US: The substance is not currently listed on the US Controlled Substances Act and is not mentioned on the DEA website. However, 2-methylamino-1-(3,4-methylenedioxy)-propiophenone 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(9) is N-methyl-3,4-methylenedioxoyamphetamine which is also known as MDMA and Ecstasy (structure shown above). 2-Methylamino-1-(3,4-methylenedioxy)-propiophenone is analogous to MDMA in that it contains the same structure with an additional oxygen. 2-Methylamino-1-(3,4-methylenedioxy)-propiophenone is therefore an analogue of MDMA and is included in item 1 of Schedule III to the CDSA. The hydrochloride salt has the same status.

The substance is also structurally similar to 2-methylamino-1-phenyl-1-propanone (methcathinone) which is listed as item 21 of Schedule III to the CDSA.

**Recommendation:** 2-Methylamino-1-(3,4-methylenedioxy)-propiophenone and its hydrochloride
salt are included in item 1 of Schedule III to the CDSA and are controlled substances.

May 8, 2007