SUBSTANCE DECISION OF CONTROLLED AND NON-CONTROLLED SUBSTANCE(S)

Substance:  I- 4’-Methyl-a-pyrrolidinopropiophenone hydrochloride
II- 3’,4’-Methylenedioxy-a-pyrrolidinopropiophenone hydrochloride

Based on the current information available to the Office of Controlled Substances, it appears that the above substances are:

Controlled ✓
Not Controlled ☐

under the schedules of the Controlled Drugs and Substances Act (CDSA) for the following reason(s):

• The substances are considered amphetamine analogues and are included under Item 1 of Schedule III to the CDSA.

Prepared by: ___________________________ Date: September 12, 2011
Vincent Marleau

Verified by: ___________________________ Date: _________
Mark Kozlowski

Approved by: ___________________________ Date: _________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: “third party information removed as per agreement with applicant”
Drug Status Report

Drug:  
I- 4'-Methyl-a-pyrrolidinopropiophenone hydrochloride  
II- 3',4'-Methyleneoxy-α-pyrrolidinopropiophenone hydrochloride

Drug Name Status:  
I- 4'-Methyl-a-pyrrolidinopropiophenone hydrochloride  
II- 3',4'-Methyleneoxy-α-pyrrolidinopropiophenone hydrochloride

Other Names:  
I- N/A  
II- MDPPP; 1-(1,3-benzodioxol-5-yl)-2-(1-pyrrolidinyl)-1-propanone, monohydrochloride

Chemical structure:

I  
[Image of 4-methylamphetamine]

II  
[Image of N-methyl-3,4-methyleneoxyamphetamine (MDMA)]

Molecular Formula:  
I- C_{14}H_{19}NO.HCl;  
II- C_{14}H_{17}NO_{3}.HCl

Pharmacological class / Application:  
Amphetamine analogues

CAS-RN:  
I- 1313393-58-6;  
II- 24698-57-5
International status:

US: 4'-Methyl-a-pyrrolidinopropiophenone hydrochloride and 3',4'-methylenedioxy-a-pyrrolidinopropiophenone hydrochloride are not listed on the schedules to the US Controlled Substances Act and are not mentioned anywhere on the DEA website.

United Nations: The substances are not listed on the Yellow List - List of Narcotic Drugs under International Control, the Green List - List of Psychotropic Substances under International Control, nor the Red List - List of Precursors and Chemicals Frequently Used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances Under International Control.

Canadian Status: 4'-Methyl-a-pyrrolidinopropiophenone hydrochloride and 3',4'-methylenedioxy-a-pyrrolidinopropiophenone hydrochloride are not listed specifically in the CDSA. However, 4'-methyl-a-pyrrolidinopropiophenone and 3',4'-methylenedioxy-a-pyrrolidinopropiophenone are substantially similar in structure to 4-methylamphetamine and N-methyl-3,4-methylenedioxyamphetamine (MDMA), respectively, and are therefore considered to be analogues of these amphetamines.

“Amphetamines, their salts, derivatives, isomers and analogues and salts of derivatives, isomers and analogues” are currently listed as item 1 of Schedule III to the CDSA. Since 4'-methyl-a-pyrrolidinopropiophenone hydrochloride is a structural analogue of 4-methylamphetamine and 3',4'-methylenedioxy-a-pyrrolidinopropiophenone hydrochloride, a structural analogue of N-methyl-3,4-methylenedioxyamphetamine, both these substances must be included under item 1 of Schedule III to the CDSA.

It is noteworthy that the status of a structurally similar substance, alpha-pyrrolidinopropiophenone (α-PPP) was reviewed previously and also considered controlled on the basis that it is amphetamine analogue.

**Recommendation:** 4'-Methyl-a-pyrrolidinopropiophenone hydrochloride and 3',4'-methylenedioxy-a-pyrrolidinopropiophenone hydrochloride are included under item 1 of Schedule III to the CDSA and are controlled substances.

**Date:** September 12, 2011