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

Substance:  2-Ethyl-5-methyl-3,3-diphenyl-1-pyrroline

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

- Controlled  ✔
- Not Controlled  ☐

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

• The substance is a metabolite of methadone and is captured under sub-item 5(4) of Schedule I to the CDSA.

Prepared by: ____________________________  Date: September 21, 2011
Vincent Marleau

Verified by: ____________________________  Date: __________
Mark Kozlowski

Approved by: ____________________________  Date: __________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Jamie Wilson, LPD
Drug Status Report

**Drug:** 2-Ethyl-5-methyl-3,3-diphenyl-1-pyrrole

**Drug Name Status:** 2-Ethyl-5-methyl-3,3-diphenyl-1-pyrrole is the common name

**Chemical Name:** 2-Ethyl-5-methyl-3,3-diphenyl-1-pyrrole

**Other Names:** EMDP

**Chemical Structure:**

![Chemical Structure Image]

**Molecular Formula:** $C_{19}H_{21}N$

**CAS-RN:** NONE

**Pharmacological class / Application:** Pharmaceutical-related substance

**International status:**

US: 2-Ethyl-5-methyl-3,3-diphenyl-1-pyrrole is not currently listed in the Schedules to the US Controlled Substances Act and is not mentioned anywhere on the DEA website.

United Nations: The substance is 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: 2-Ethyl-5-methyl-3,3-diphenyl-1-pyrrole is not currently listed in the CDSA. The substance is metabolite of methadone\(^1\) which is currently listed as sub-item 5(4) in Schedule I to the CDSA under the heading “Amidones, their intermediates, salts, derivatives and salts of

\(^1\)Kelly, T et al. (2003) Chiral separation of methadone, 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP) and 2-ethyl-5-methyl-3,3-diphenyl-1-pyrrole (EMDP) by capillary electrophoresis using cyclodextrin derivatives, Electrophoresis, 24:2106-2110.
intermediates and derivatives including:” As a metabolite of methadone, 2-Ethyl-5-methyl-3,3-diphenyl-1-pyrroline considered included under sub-item 5(4) of Schedule I as a derivative of methadone. Note that all the salts of the substance will be controlled including the hydrochloride hemimethanolate.

**Recommendation:** 2-Ethyl-5-methyl-3,3-diphenyl-1-pyrroline is included under sub-item 5(4) of Schedule I to the CDSA and is considered a controlled substance.

**Date:** September 21, 2011