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

Substance:  I - 2-methylmethcathinone
            II - 3-methylmethcathinone

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):

- 2-methylmethcathinone and 3-methylmethcathinone are isomers of 4-methylmethcathinone (mephedrone) and therefore included
  under item 1 of Schedule III to the CDSA.

Prepared by: _____________________________     Date: Aug 17 2010
Evelyn Soo

Verified by: _____________________________     Date: __________
Marianne Tang

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 - 2-methylmethcathinone  
II - 3-methylmethcathinone

**Drug Name Status:**

I - 2-methylmethcathinone  
II - 3-methylmethcathinone are common names

**Chemical Name:**

I - 2-Methylamino-1-(2-methylphenyl)-1-propanone  
II - 2-Methylamino-1-(3-methylphenyl)-1-propanone

**Other Names:**

I - 2-methyl ephedrine  
II - 3-methyl ephedrine

**Chemical structure:**

![Chemical structures of I and II](image)

**Molecular Formula:**

I - C_{11}H_{15}NO; II - C_{11}H_{15}NO

**Pharmacological class / Application:** stimulant

**CAS-RN:**

I - N/A; II - N/A

**International status:**

**US:** The substance is not currently listed on the US Controlled Substances Act and is not mentioned on the DEA website. However, the substances may be considered controlled 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:** 2-methylmethcathinone and 3-methylmethcathinone are not listed specifically in the schedules to the CDSA. As shown above, the substances are positional isomers of 4-methylmethcathinone (aka. mephedrone) which is considered to be an analogue of 4-methylmethamphetamine and is included under...
item 1 of Schedule III to the CDSA. Given that 2-methylmethcathinone and 3-methylmethcathinone are isomers of 4-methylmethcathinone, the substances are included under the heading “Amphetamines, their salts, derivatives, isomers and analogues and salts of derivatives, isomers and analogues” of item 1 of Schedule III to the CDSA. A recent review of fluoromethcathinone also included the three positional isomers (i.e. 2-, 3-, and 4-fluoromethcathinone) under item 1 of Schedule III to the CDSA.

**Recommendation:** 2-methylmethcathinone and 3-methylmethcathinone are included under item 1 of Schedule III to the CDSA and are considered to be controlled substances.

**Date:** 17 August 2010