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

Substance: 3,4-Dimethylmethcathinone

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 considered to be an analogue of 4-methylmethamphetamine and included under item 1 of Schedule III to the CDSA.

Prepared by: ___________________________ Date: April 29th 2011
Evelyn Soo

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**: 3,4-Dimethylmethcathinone

**Drug Name Status**: 3,4-Dimethylmethcathinone is the common name.

**Chemical Name**: 1-(3,4-Dimethylphenyl)-2-(methylamino)-1-propanone

**Other Names**: 3,4-DMMC; 1-(3,4-Dimethylphenyl)-2-(methylamino)-propan-1-one; 3,4-trimethylcathinone

**Chemical structure**: 

- 4-methylmethamphetamine
- 4-methylmethcathinone (mephedrone)

**Molecular Formula**: C₁₂H₁₇NO

**Pharmacological class / Application**: Stimulant

**CAS-RN**: 1081772-06-6

**International status**:

US: 3,4-Dimethylmethcathinone is not listed in the 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: 3,4-Dimethylmethcathinone is a designer drug that is believed to exhibit stimulant properties and is used for recreational purposes. The substance is not currently listed in the CDSA but, as shown above, displays substantial structural similarity to 4-methylmethamphetamine and, for the purpose of forming status decisions, is considered an analogue of 4-methylmethamphetamine. Currently, 4-methylmethamphetamine is controlled under item 1 of Schedule III to the CDSA, under the heading “Amphetamines, their salts, derivatives, isomers and analogues and salts of derivatives, isomers and analogues, including:”. As an analogue of 4-methylmethamphetamine, the substance would be captured under the heading of item 1 of Schedule III. It is noteworthy that the status of a structurally similar substance, 4-methylmethcathinone (which is more commonly known as mephedrone) was
reviewed and was also considered to be an analogue of 4-methylmethamphetamine.

**Recommendation:** 3,4-Dimethylmethcathinone is included under item 1 of Schedule III to the CDSA and is a controlled substance.

**Date:** 29 April 2011