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

Substance: 4-methylethcathinone

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 amphetamine analogue and therefore included under item 1 of Schedule III to the CDSA.

Prepared by: ___________________________ Date: Jan 25th 2010
Evelyn Soo

Verified by: ___________________________ Date: __________
Marianne Tang

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

This status was requested by: Carol Anne Chenard
Drug Status Report

Drug: 4-methylethcathinone

Drug Name Status: 4-methylethcathinone is the common name.

Chemical Name: 4-methyl-N-ethylcathinone

Other Names: 4-methylethcathinone; para-methyl-N-ethylcathinone; para-methylethcathinon-1-yl)methanone; 4-MEC

Chemical structure:

![Chemical Structure](image)

Molecular Formula: $C_{12}H_{17}NO$

Pharmacological class / Application: Amphetamine analogue

CAS-RN: unknown

International status:

US: The substance is not listed specifically 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 specifically on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: 4-methylethcathinone is not listed specifically in the schedules to the CDSA. The substance has been reported to be an emerging designer drug\(^1\) and the substance displays significant structural similarity to N-ethylamphetamine, which is currently listed as sub-item 1(2) of Schedule III to the CDSA under the heading “Amphetamines, their salts, derivatives, isomers and analogues and salts of derivatives, isomers and analogues including:”. For the purpose of

forming status decisions, an analogue is considered to be a substance that displays significant structural similarity to one included in the CDSA and given that 4-methylethcathinone is an analogue of N-ethylamphetamine, it must be included under item 1 of Schedule III to the CSDA.

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

**Date:** 25 January 2011