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

Substance: Dimethylone

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 an analogue of N,N-Dimethyl-3,4-methylenedioxyamphetamine and included under item 1 of Schedule III to the CDSA.

Prepared by: ________________________________ Date: ____________
Vincent Marleau

Verified by: ________________________________ Date: ____________
Mark Kozlowski

Approved by: ________________________________ Date: ____________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Jeremy Neustaeter, DAS
Drug Status Report

**Drug:** Dimethylone

**Drug Name Status:** Dimethylone is the common name.

**Chemical Name:** 1-(benzo[d][1,3]dioxol-5-yl)-2-(dimethylamino)propan-1-one

**Other Names:** 1-(1,3-benzodioxol-5-yl)-2-(dimethylamino)-1-propanone, monohydrochloride; bk-MDDMA

**Chemical structure:**

![Chemical Structure of Dimethylone]

**Molecular Formula:** C_{12}H_{15}NO_{3}  
**CAS-RN:** N/A

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

**International status:**

US: Dimethylone 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 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: Dimethylone is not currently listed in the Schedules to the CDSA. The substance belongs to the family of cathinones and shows substantial structural similarity to N,N-dimethyl-3,4-methylenedioxyamphetamine, which is currently listed as sub-item 1(12) in 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 a substance that displays substantial structural similarity to a controlled substance. On that basis, dimethylone is considered to be an analogue of N,N-dimethyl-3,4-methylenedioxyamphetamine and included under item 1 of Schedule III to the CDSA.

**Recommendation:** Dimethylone is included under item 1 of Schedule III to CDSA and is a controlled substance.

**Date:** June 18th, 2012.