



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

Substance: Metamfepramone

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

Controlled [checked]
Not Controlled [unchecked]

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

- The substance is an analogue of N,N-dimethylamphetamine and included under item 1 of Schedule III to the CDSA.

Prepared by: Evelyn Soo Date: Sept 10th 2010

Verified by: Marianne Tang Date:

Approved by: DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES Date:

This status was requested by: Pierre Andre Dube of the CFIA

Drug Status Report

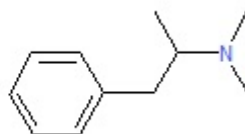
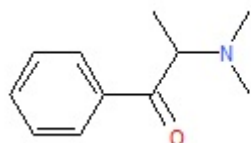
Drug: Metamfepramone

Drug Name Status: Metamfepramone is the proper (INN) name.

Chemical Name: 2-(Dimethylamino)-1-phenyl-1-propanone

Other Names: Dimethylcathinone; dimethylpropion; dimepropion

Chemical structure:



Dimethylamphetamine (DMA)

Molecular Formula: C₁₁H₁₅NO

Pharmacological class / Application: Stimulant

CAS-RN: 15351-09-4

International status:

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

Canadian Status: Metamfepramone is a sympathomimetic agent that is used for the treatment of the common cold and hyponatremic conditions¹. The substance is not currently listed in the CDSA but is considered to be an analogue of dimethylamphetamine; an analogue being a substance that displays significant structural similarity to one included in the CDSA for the purpose of forming status decisions. As such, metamfepramone is included under the heading "Amphetamines, their salts, derivatives, isomers and analogues and salts of derivatives, isomers and analogues including" of item 1 of Schedule III to the CDSA as an amphetamine analogue. It is noteworthy

¹Thevis, M *et al.* (2009) Doping control analysis of metamfepramone and two major metabolites using liquid chromatography-tandem mass spectrometry, *Eur. J. Mass Spectrometr.* **15**: 507-515.

that the substance may also be considered to be an analogue of methcathinone which is listed as item 21 under Schedule III to the CDSA. However, the item heading “2-methylamino-1-phenyl-1-propanone and any salt after” of item 21 of Schedule III to the CDSA would not include metamfepramone, as the substance is not a salt of methcathinone.

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

Date: 23 September 2010