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

Substance:  I - 2-Ethoxy-4,5-dimethoxyamphetamine
II - 2-Methylthio-4,5-dimethoxyamphetamine

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 compounds are amphetamines and therefore are included under Item 1 of Schedule III to the CDSA.

Prepared by: ________________________________  Date: Sept 13th, 2011

Evelyn C Soo

Verified by: ________________________________  Date: _____________

Mark Kozlowski

Approved by: ________________________________  Date: _____________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by:
Drug Status Report

Drug:  
I - 2-Ethoxy-4,5-dimethoxyamphetamine  
II - 2-Methylthio-4,5-dimethoxyamphetamine

Drug Name Status:  
I - 2-Ethoxy-4,5-dimethoxyamphetamine  
II - 2-Methylthio-4,5-dimethoxyamphetamine are the common names.

Chemical Name:  
I - 2-Ethoxy-4,5-dimethoxy-alpha-methylbenzeneethanamine  
II - 2-Methylthio-4,5-dimethoxy-alpha-methylbenzeneethanamine

Other Names:  
I - 1-((2-Ethoxy-4,5-dimethoxy)phenyl)propan-2-amine; EMM  
II - 1-((2-Methylthio-4,5-dimethoxy)phenyl)propan-2-amine: ORTHO-DOT

Chemical Structure:

\[
\text{I} \quad \text{II}
\]

Molecular Formula:  
I - C_{13}H_{21}NO_3; II - C_{12}H_{19}NO_2S

Pharmacological class / Application:  
Amphetamines

International status:

US: 2-Ethoxy-4,5-dimethoxyamphetamine and 2-methylthio-4,5-dimethoxyamphetamine are not listed specifically in the Schedules to the US Controlled Substances Act. However, they may be considered controlled under the analogue provision of the CSA.

United Nations: The substances are 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: The substances are part of a series of designer amphetamines synthesized by Shulgin and tested for their potential stimulant/hallucinogenic potential. 2-Ethoxy-4,5-dimethoxyamphetamine and 2-methylthio-4,5-dimethoxyamphetamine are not currently listed in the schedules to the CDSA but the substances are nonetheless amphetamines and therefore captured by the heading “Amphetamines, their salts, derivatives, isomers, analogues and salts of derivatives, isomers and analogues including”. In addition, 2-ethoxy-4,5-dimethoxyamphetamine is a positional isomer of 4-ethoxy-2,5-dimethoxyamphetamine, while methylthio-4,5-dimethoxyamphetamine is a structural analogue of and 4-methyl-4,5-dimethoxyamphetamine, a positional isomer of sub-item 1(4) 4-methyl-2,5-dimethoxyamphetamine. 4-Ethoxy-2,5-dimethoxyamphetamine is currently listed as sub-item 1(10) in Schedule III to the CDSA.

Therefore, 2-ethoxy-4,5-dimethoxyamphetamine and 2-methylthio-4,5-dimethoxyamphetamine must be included under item 1 of Schedule III to the CDSA.

Recommendation: 2-Ethoxy-4,5-dimethoxyamphetamine and 2-methylthio-4,5-dimethoxyamphetamine are considered included under item 1 of Schedule III to the CDSA and are controlled substances.

Date: 13 September, 2011