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

Substance: 2-[(Diphenyl methyl)sulfinyl] acetic acid methyl ester

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

- Controlled ☐
- Not Controlled X

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

- The substance is an intermediate in the synthesis of modafinil and is not structurally similar to any of those listed in the Schedules to the CDSA.

Prepared by: ___________________________ Date: ________________
Evelyn C Soo

Verified by: ___________________________ Date: ________________
Mark Kozlowski

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

This status was requested by: Bruno Lafontaine, OCS
Drug Status Report

Drug: 2-[(Diphenyl methyl)sulfinyl] acetic acid methyl ester

Drug Name Status: 2-[(Diphenyl methyl)sulfinyl] acetic acid methyl ester is the common name.

Chemical Name: 2-[(Diphenyl methyl)sulfinyl] acetic acid methyl ester

Other Names: Methyl 2-(benzylhydrsulfinyl)acetate

Chemical structure:

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\begin{array}{c}
\begin{array}{c}
\text{C}_2H_4O_2S
\end{array}
\end{array}
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Molecular Formula: C₁₆H₁₆O₃S      CAS-RN: Unknown

Pharmacological class / Application: Pharmaceutical-related substance

International status:

US: 2-[(Diphenyl methyl)sulfinyl] acetic acid methyl ester is not listed specifically in the Schedules to the US Controlled Substances Act and is not mentioned anywhere on US 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: 2-[(Diphenyl methyl)sulfinyl] acetic acid methyl ester is not listed in the schedules to the CDSA. The substance has been reported to be an intermediate relating to the synthesis of modafinil\(^1\), which is a drug used to treat insomnia and currently listed under Schedule F to the Food and Drugs Regulations. The substance is not structurally similar to any of those listed in the CDSA.

Recommendation: 2-[(Diphenyl methyl)sulfinyl] acetic acid is not included in the Schedules to the CDSA and is not a controlled substance.

Date: September 13\(^{th}\), 2012.

\(^1\) http://www.usp.org/sites/default/files/usp_pdf/EN/USPNF/modafinil.pdf