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

Substance:  I- \([R(-)-(Diphenylmethyl)sulfinyl]acetic acid\)
       II- 2-\([(Diphenylmethyl)sulfonyl]acetamide\)
       III- 2-\([(Diphenylmethyl)thio]acetamide\)
       IV- Benzohydrol
       V- Methyl-\([R(-)(Diphenylmethyl)sulfinyl] acetate\)
       VI- 2-\([R(-)(Diphenylmethyl)sulfinyl]-N-methylacetamide\)

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 substances are claimed to be substances related to the synthesis of \(R\)-modafinil and are not included in any of the schedules to the CDSA.

Prepared by:  

Vincent Marleau  
Date: August 23, 2011

Verified by:  

Mark Kozlowski  
Date: 

Approved by:  

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES  
Date: 

This status was requested by: "third party information removed as per agreement with applicant"
Drug Status Report

Drug:  
I- [R-(-)-(Diphenylmethyl)sulfinyl]acetic acid
II- 2-[(Diphenylmethyl)sulfonyl]acetamide
III- 2-[(Diphenylmethyl)thio]acetamide
IV- Benzohydrol
V- Methyl-[R-(-)-(Diphenylmethyl)sulfinyl] acetate
VI- 2-[R-(-)-(Diphenylmethyl)sulfinyl]-N-methylacetamide

Drug Name Status:  
I- [R-(-)-(Diphenylmethyl)sulfinyl]acetic acid
II- 2-[(Diphenylmethyl)sulfonyl]acetamide
III- 2-[(Diphenylmethyl)thio]acetamide
IV- Benzohydrol
V- Methyl-[R-(-)-(Diphenylmethyl)sulfinyl] acetate
VI- 2-[R-(-)-(Diphenylmethyl)sulfinyl]-N-methylacetamide are the common names.

Chemical Name:  
I- R-(-)-(Benzhydrylsulfinyl) acetic acid
II- (Benzhydrylsulfonyl)acetamide
III- (Benzhydrylsulfanyl)acetamide
IV- Benzenemethanol, alpha-phenyl-
V- Methyl-R-(-)-Benzhydryl sulfinylacetate
VI- N-Methyl-R(-)-(diphenylmethyl)sulfinylacetamide are the common names.

Other Names:  
I- N/A
II- N/A
III- 2-[(Diphenylmethyl)thio]-acetamide; Diphenyl methyl thio acetamide;
2-[(Diphenylmethyl) Thio] Acetylamine; 2-[(Diphenylmethyl)thio] acetylamine;
Acetamide, 2-[(diphenylmethyl)thio]-.  
IV- Benzhydryl alcohol; Benzohydrol; Diphenyl carbinol; Diphenylcarbinol;
Diphenylmethanol; Diphenylmethyl alcohol; Hydroxydiphenylmethane; Benzhydryl alcohol; alpha-Phenylbenzenemethanol.
V- N/A
VI- N/A
Chemical structure:

Molecular Formula: I- C_{16}H_{15}O_{3}S; II- C_{15}H_{15}NO_{3}S; III- C_{15}H_{15}NOS; IV- C_{13}H_{12}O; V- C_{17}H_{18}NO_{2}S; II- C_{16}H_{16}NO_{2}S.

Pharmacological class / Application: Fine chemicals

CAS-RN: I- N/A; II- N/A; III- 68524-30-1; IV- 91-01-0; V- N/A; VI- N/A

International status:

US: [R-(-)-(Diphenylmethyl)sulfinyl]acetic acid, 2-[(Diphenylmethyl)sulfonyl]acetamide, 2-[(Diphenylmethyl)thio]acetamide, Benzohydrol, Methyl-[R-(-)-(Diphenylmethyl)sulfinyl]acetate and 2-[R-(-)-(Diphenylmethyl)sulfinyl]-N-methylacetamide are not listed specifically in the Schedules to the US Controlled Substances Act and are not mentioned anywhere on the DEA website.

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: [R-(-)-(Diphenylmethyl)sulfinyl]acetic acid, 2-[(Diphenylmethyl)sulfonyl]acetamide, 2-[(Diphenylmethyl)thio]acetamide, Benzohydrol, Methyl-[R-(-)-(Diphenylmethyl)sulfinyl] acetate and 2-[R-(-)-(Diphenylmethyl)sulfinyl]-N-methylacetamide are not currently listed in the CDSA. They are all substances related to the synthesis of R-modafinil, which is currently regulated under Schedule F to the Food and Drugs Regulations and not included under the Schedules to the CDSA. The substances are also not structurally similar to any of those included in the CDSA.

**Recommendation:** [R-(-)-(Diphenylmethyl)sulfinyl]acetic acid, 2-[(Diphenylmethyl)sulfonyl]acetamide, 2-[(Diphenylmethyl)thio]acetamide, Benzohydrol, Methyl-[R-(-)-(Diphenylmethyl)sulfinyl] acetate and 2-[R-(-)-(Diphenylmethyl)sulfinyl]-N-methylacetamide are not included under the Schedules to the CDSA and are not controlled substances.

**Date:** 23 August 2011