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

Substance:  
I- Cannabichromene  
II- Cannabichromevarin  
III- Cannabichromevarinic acid

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):

• Cannabichromene, cannabichromevarin and cannabichromevarinic acid are included in Item 1 of Schedule II to the CDSA and are controlled substances.

Prepared by: _______________________________ Date: November 21st, 2011
Vincent Marleau

Verified by: _______________________________ Date: __________
Mark Kozlowski

Approved by: _______________________________ Date: __________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

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

Drug:  
I- Cannabichromene  
II- Cannabichromevarin  
III- Cannabichromevarinic acid

Drug Name Status:  
I- Cannabichromene  
II- Cannabichromevarin  
III- Cannabichromevarinic acid are the common names.

Chemical Name:  
I- 2-Methyl-2-(4-methyl-3-pentenyl)-7-pentyl-2H-1-benzopyran-5-ol  
II- (+)-2-Methyl-2-(4-methyl-3-pentenyl)-7-propyl-2H-1-benzopyran-5-ol  
II- 2H-1-Benzopyran-6-carboxylicacid, 5-hydroxy-2-methyl-2-(4-methyl-3-penten-1-yl)-7-propyl-, (-)

Other Names:  
I- CBC; Cannabichrome; Cannabichromene; Cannabichromevarin; Cannabichromevarinic acid  
Pentylcannabichromene; 2H-1-Benzopyran-5-ol, 2-methyl-2-(4-methyl-3-pentenyl)-7-pentyl- 
II- CBCV; (S)-2-methyl-2-(4-methylpent-3-en-1-yl)-7-propyl-2H-chromen-5-ol  
III- CBCVA; (S)-5-hydroxy-2-methyl-2-(4-methylpent-3-en-1-yl)-7-propyl-2H-chromene-6-carboxylic acid.

Chemical structure:

\[ \text{Molecular Formula: I- } C_{21}H_{30}O_2; \text{ II- } C_{19}H_{26}O_2; \text{ III- } C_{20}H_{28}O_4 \]

Pharmacological class / Application: Cannabinoids

CAS-RN:  
I- 20675-51-8; II- 57130-04-8; III- 64898-02-8

International status:  
US: Cannabichromene, cannabichromevarin and cannabichromevarinic acid are not listed in 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: The substances are not listed in the schedules to the CDSA. However, in the literature cannabichromene, cannabichromevarin and cannabichromevarinic acid are known to be constituents of *Cannabis sativa*¹, which enables them to be included under Item 1 of Schedule II to the CDSA under the heading: “Cannabis, its preparations, derivatives and similar synthetic preparations, including:”. Therefore cannabichromene, cannabichromevarin and cannabichromevarinic acid must be considered to be controlled substances.

**Recommendation:** Cannabichromene, cannabichromevarin and cannabichromevarinic acid are included in Item 1 of Schedule II to the CDSA and are controlled substances.

**Date:** November 21st, 2011

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