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

Substance: 8-hydroxy-hydromorphone

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 substance must be included under Item 1 of Schedule I to the CDSA under the heading “Opium Poppy, its preparation, derivatives, alkaloids and salts, including”.

Prepared by: ___________________________ Date: February 24th, 2012
Marie-Christine Nolet

Verified by: ___________________________ Date: __________
Mark Kozlowski

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

This status was requested by: Wissam Sader
Drug Status Report

**Drug:** 8-hydroxy-hydromorphone

**Drug Name Status:** 8-hydroxy-hydromorphone

**Chemical Name:** 8-hydroxy-4,5-epoxy-3-hydroxy-17-methylmorphinan-6-one

**Other Names:** 8-hydroxy-hydromorphone; (4R,4aR,12bS)-5,9-dihydroxy-3-methyl-2,3,4,4a,5,6-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinolin-7(7aH)-one.

**Chemical structure:**

![Chemical structure of 8-hydroxy-hydromorphone]

**Molecular Formula:** C\textsubscript{17}H\textsubscript{19}NO\textsubscript{4}

**Pharmacological class / Application:** Morphinan

**CAS-RN:** N/A

**International status:**

US: 8-hydroxy-hydromorphone is not listed in the schedules to the US *Controlled Substances Act* and is not mentioned on the 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: 8-hydroxy-hydromorphone is not listed specifically in the CDSA. The substance is formed in the synthesis of hydromorphone from morphine\textsuperscript{1}. Hydromorphone and morphine are listed as Sub-Item l(17) and Sub-Item 1(3) respectively in Schedule I to the CDSA under the heading “Opium Poppy, its preparation, derivatives, alkaloids and salts, including:”. As a derivative of morphine, 8-hydroxy-hydromorphone must be included under Item 1 of Schedule I to the CDSA.

\textsuperscript{1}Harclerode, W. H.; Gault, R.; Sandison, M. D. “Method of forminghydromorphinone compositions.” European Patent 2,338,891, issued June 29\textsuperscript{th}, 2011
Recommendation: 8-hydroxy-hydromorphone is included under Item 1 of Schedule I to the CDSA and is considered a controlled substance.

Date: February 21th, 2012.