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

Substance: Oxo-hydrocodone; thio-hydrocodone; sulfuryl-hydrocodone; phosphinyl-hydrocodone; sulfonyl-hydrocodone; oxycodone allyloxazolidine; oxycodone cyclopropylmethyloxazolidine; oxycodone oxazolidine; oxymorphone allyloxazolidine; oxymorphone cyclopropylmethyloxazolidine

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 derivatives of hydrocodone, oxycodone or oxymorphone and must be included under item 1 of Schedule I to the CDSA.

Prepared by: ____________________________ Date: Feb 7th 2011
Evelyn Soo

Verified by: ____________________________ Date: __________
Marianne Tang

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

The status of a number of novel derivatives of hydrocodone, oxycodone and oxymorphone as listed below were requested:

**Drug:**
- I - oxo-hydrocodone
- II - thio-hydrocodone
- III - sulfuryl-hydrocodone
- IV - phosphinyl-hydrocodone
- V - sulfonyl-hydrocodone
- VI - oxycodone allyloxazolidine
- VII - oxycodone cyclopropylmethyloxazolidine
- VIII - oxycodone oxazolidine
- IX - oxymorphone allyloxazolidine
- X - oxymorphone cyclopropylmethyloxazolidine

**Chemical structure:**

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I   II   III   IV

V

VI  VII  VIII V

IX  X
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**Molecular Formula:** I - C$_{17}$H$_{18}$O$_{4}$; II - C$_{17}$H$_{18}$O$_{3}$S; III - C$_{17}$H$_{18}$O$_{4}$S - IV - C$_{17}$H$_{19}$O$_{5}$P; V - C$_{17}$H$_{18}$O$_{4}$S; VI - C$_{21}$H$_{24}$BrNO$_{4}$; VII - C$_{22}$H$_{26}$BrNO$_{4}$; VIII - C$_{18}$H$_{19}$NO$_{4}$; IX - C$_{20}$H$_{22}$BrNO$_{4}$; X - C$_{21}$H$_{24}$BrNO$_{4}$

**Pharmacological class / Application:** Derivatives of hydrocodone, oxycodone and oxymorphone

**CAS-RN:** NONE

**International status:**

US: The above-named substances are not listed specifically in the schedules to the US *Controlled Substances Act* but are considered controlled under the analogue provision of the CSA.

United Nations: The substances are not listed specifically on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: The above-named substances are not listed specifically in the CDSA. However, they are derivatives of hydrocodone (I-V), oxycodone (VI-VIII) or oxymorphone (IX-X) which are controlled as sub-items 1(15), 1(28) and 1(29), respectively, of Schedule I to the CDSA under the heading “Opium Poppy (Papaver somniferum), its preparations, derivatives, alkaloids and salts including:”. Therefore substances I-V, VI-VIII and IX-X are included under sub-items 1(15), 1(28) and 1(29) of Schedule I to the CDSA.

**Recommendation:** Oxo-hydrocodone, thio-hydrocodone, sulfuryl-hydrocodone, phosphinyl-hydrocodone, sulfonyl-hydrocodone oxycodone allyloxazolidine, oxycodone cyclopropylmethylxazolidine, oxycodone oxazolidine, oxymorphone allyloxazolidine and oxymorphone cyclopropylmethylxazolidine are included under item 1 of Schedule I to the CDSA and are controlled substances.

**Date:** 4th February 2011