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

Substance:  
I - 10-Oxo-buprenorphine  
II - Cyano-3-O-methyl-norbuprenorphine

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 buprenorphine and included under item 10(1) of Schedule I to the CDSA.

Prepared by: ________________________________ Date:  Dec 6th 2010
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

Drug:  
I - 10-Oxo-buprenorphine  
II - Cyano-3-O-methyl-norbuprenorphine

Drug Name Status:  
I I - 10-Oxo-buprenorphine  
II - Cyano-3-O-methyl-norbuprenorphine are the common names.

Chemical Name:  
I - (5alpha,7alpha(S))-17-Cclopropylmethyl)-alpha-(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy-alpha-methyl-10-oxo-6,14-ethenomorphinan-7-methanol  
II - [5alpha,7alpha(S)]-4,5-epoxy-18,19-dihydro-7-(1-hydroxy-1,2,2-trimethylpropyl)-3,6-dimethoxy-6,14-ethenomorphinan-17-carbonitrile

Other Names:  
I - NONE  
II - 17-Cyano-17-demethyl-7alpha-(1-hydroxy-1,2,2-trimethylpropyl)-6,14-endothanotetrahydrothebaine

Chemical structure:

![Chemical structure I](image1)

II

Molecular Formula:  
I - C_{29}H_{39}NO; II - C_{27}H_{36}N_{2}O_{4}

CAS-RN:  
I - 1044710-08-8; II - 16614-60-1

Pharmacological class / Application: Pharmaceutical-related substances

International status:  
US: 10-Oxo-buprenorphine and cyano-3-O-methyl-norbuprenorphine are not listed in the schedules to the CSA 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: 10-Oxo-buprenorphine and cyano-3-O-methyl-norbuprenorphine are two derivatives of buprenorphine and are not listed specifically in the CDSA. However, buprenorphine is listed as item 10(1) in Schedule I to the CDSA under the heading “Morphinans, their salts, derivatives and salts of derivatives including:”. Therefore as derivatives of buprenorphine, 10-Oxo-buprenorphine and cyano-3-O-methyl-norbuprenorphine must be included under item 10(1) to Schedule I to the CDSA.

**Recommendation:** 10-Oxo-buprenorphine and cyano-3-O-methyl-norbuprenorphine are included under item 10(1) of Schedule I to the CDSA and are controlled substances.

**Date:** 6 December 2010