



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 [checked]
Not Controlled [unchecked]

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: Evelyn Soo Date: Dec 6th 2010

Verified by: Marianne Tang 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 - 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:**

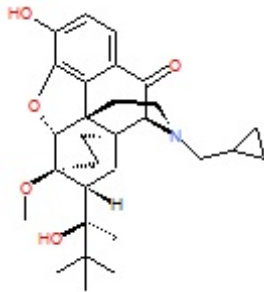
I - (5 $\alpha$ ,7 $\alpha$ (S))-17-Cclopropylmethyl)- $\alpha$ -(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy- $\alpha$ -methyl-10-oxo-6,14-ethenomorphinan-7-methanol  
II - [5 $\alpha$ ,7 $\alpha$ (S)]-4,5-epoxy-18,19-dihydro-7-(1-hydroxy-1,2,2-trimethylpropyl)-3,6-dimethoxy-6,14-ethenomorphinan-17-carbonitrile

**Other Names:**

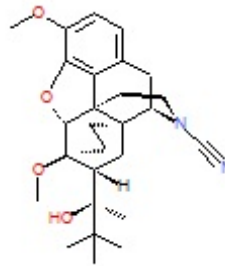
I - NONE

II - 17-Cyano-17-demethyl-7 $\alpha$ -(1-hydroxy-1,2,2-trimethylpropyl)-6,14-endo-ethanotetrahydrothebaine

**Chemical structure:**



I



II

**Molecular Formula:** I - C<sub>29</sub>H<sub>39</sub>NO; II - C<sub>27</sub>H<sub>36</sub>N<sub>2</sub>O<sub>4</sub>

**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