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

Substance:  

I - 10-Methylene N-nordextromethorphan  
II - O-Desmethyl-10-methylene dextromethorphan

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 dextromethorphan and are included under item 10 of Schedule I to the CDSA.

Prepared by:  _______________________________  Date:  ______________

Evelyn Soo

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 - 10-Methylene N-nordextromethorphan  
      II - O-Desmethyl-10-methylene dextromethorphan

Drug Name Status: 
I - 10-Methylene N-nordextromethorphan  
II - O-Desmethyl-10-methylene dextromethorphan are the common names.

Chemical Name: 
I - (9alpha,13alpha,14alpha)-10-Methylene-3-methoxymorphinan  
II - (9alpha,13alpha,14alpha)-3-Hydroxy-10-methylene-17-methylmorphinan

Chemical structure:

![Chemical structure images]

I         II

Molecular Formula: I - C_{18}H_{23}NO; II - C_{18}H_{23}NO

CAS-RN: N/A

Pharmacological class / Application: Pharmaceutical-related substances

International status:

US: 10-Methylene N-nordextromethorphan and O-desmethyl-10-methylene dextromethorphan are not listed on the schedules to 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: 10-Methylene N-nordextromethorphan and O-desmethyl-10-methylene dextromethorphan are not currently listed in the schedules to the CDSA. The substances are
related substances of dextromethorphan which is currently listed as sub-item 10(10) in Schedule I and excluded from the CDSA under the “but not including” provision. While dextromethorphan is specifically excluded from the CDSA, 10-methylene N-nordextromethorphan and O-desmethyl-10-methylene dextromethorphan are not considered to be excluded from the CDSA. In addition, the substances contain the morphinan core structure and therefore must be included under item 10 of Schedule I to the CDSA, under the heading “Morphinans, their salts, derivatives and salts of derivatives including:”

**Recommendation:** 10-Methylene N-nordextromethorphan and O-desmethyl-10-methylene dextromethorphan are included under item 10 of Schedule I to the CDSA and are controlled substances.

**Date:** September 7th, 2011