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

Substance: Normorphinone

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

- Controlled  X
- Not Controlled  □

under the schedules of the Controlled Drugs and Substances Act (CDSA) for the following reason(s):

- The substance is a derivative of morphine-N-oxide and included under sub-item 1(21) of Schedule I to the CDSA.

Prepared by: ______________________  Date: ____________

Vincent Marleau

Verified by: ______________________  Date: ____________

Mark Kozlowski

Approved by: ______________________  Date: ____________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Sahan de Silva, Scientific Screening Officer
Drug Status Report

Drug: Normorphinone

Drug Name Status: Normorphinone is the common name.

Chemical Name: (4R,4aR,7aR,12bS)-9-hydroxy-2,3,4,4a-tetrahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinolin-7(7aH)-one

Other Names: (5alpha)-7,8-Didehydro-4,5-epoxy-3-hydroxymorphinan-6-one; EINECS 229-973-1.

Chemical structure:

![Chemical structure of Normorphinone]

Molecular Formula: C_{16}H_{15}NO_{3}

Pharmacological class / Application: Morphine-N-oxide derivative

CAS-RN: 6872-48-6

International status:
US: Normorphinone is not listed specifically in the Schedules to the US Controlled Substances Act and is not mentioned anywhere 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: Normorphinone is not listed specifically in the CDSA. The substance is a derivative of morphine-N-oxide, which is listed as sub-item 1(21) of Schedule I under the heading “Opium Poppy (Papaver somniferum), its preparations, derivatives, alkaloids and salts, including:” As a derivative of morphine-N-oxide, normorphinone must be included under item 1 of Schedule I to the CDSA. It is noteworthy that this substance also contains the core structure of the morphinans and therefore can also be included under item 10 of Schedule I to the CDSA.

Recommendation: Normorphinone is included in sub-item 1(21) of Schedule I to the CDSA and is a controlled substance.

Date: October 24th, 2012.