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

Substance: Nicomorphine hydrochloride

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 and included under sub-item 1(3) 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: Nicomorphine hydrochloride

Drug Name Status: Nicomorphine hydrochloride is the common name.

Chemical Name: (5alpha,6alpha)-7,8-Didehydro-4,5-epoxy-17-methylmorphinan-3,6-diyl bispyridine-3-carboxylate hydrochloride

Other Names: 3,6-Dinicotinoyl-morphine hydrochloride; Bisnicotinoylmorphine hydrochloride; EINECS 234-917-4; Gewalan; Morphine dinicotinate hydrochloride; Nicomorphine HCl; Vilan; Morphinan-3,6-alpha-diol, 7,8-didehydro-4,5-alpha-epoxy-17-methyl-, dinicotinate (ester), monohydrochloride.

Chemical structure:

![Chemical Structure Image]

Molecular Formula: C_{29}H_{26}ClN_{3}O_{5}

Pharmacological class / Application: Morphine derivative

CAS-RN: 12040-41-4

International status:
US: Nicomorphine hydrochloride 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: Nicomorphine hydrochloride is not listed specifically in the CDSA. The substance is a derivative of morphine, which is listed as sub-item 1(3) of Schedule I under the heading “Opium Poppy (Papaver somniferum), its preparations, derivatives, alkaloids and salts, including.” As a derivative of morphine, nicomorphine hydrochloride 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:** Nicomorphine hydrochloride is included in sub-item 1(3) of Schedule I to the CDSA and is a controlled substance.

**Date:** October 24th, 2012.