Health Canada
Santé Canada

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

Substance: Heterocodeine

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

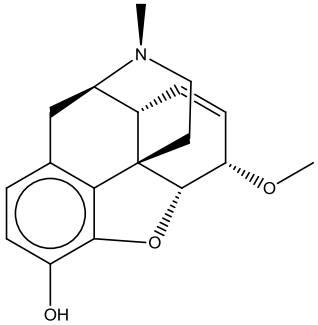
Drug: Heterocodeine

Drug Name Status: Heterocodeine is the common name.

Chemical Name:(5alpha,6alpha)-7,8-Didehydro-4,5-epoxy-6-methoxy-17-methylmorphinan-3-ol.

Other Names: EINECS 211-356-3; Morphine alcoholic methyl ether, Morphine, 6-methyl ester; Morphine, O(sup 6)-methyl-; Morphine, O(sup6)-methyl-; Morphinan-3-ol, 7,8-didehydro-4,5-alpha-epoxy-6-alpha-methoxy-17-methyl-; Morphinan-3-ol, 7,8-didehydro-4,5-epoxy-6-ethoxy-17-methyl-, (5alpha,6alpha)- (9CI).

Chemical structure:



Molecular Formula: $C_{18}H_{21}NO_3$ **CAS-RN:** 639-47-4

Pharmacological class / Application: Morphine derivative

International status:
US: Heterocodeine 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: Heterocodeine 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, Heterocodeine must also 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: Heterocodeine is included in sub-item 1(3) of Schedule I to the CDSA and is a controlled substance.

Date: October 24th, 2012.