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

Substance: 10-Ketonalbuphine

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 nalbuphine and is captured item 10 of Schedule I to the CDSA.

Prepared by: ___________________________ Date: ______________
Evelyn C Soo

Verified by: ___________________________ Date: ______________
Mark Kozlowski

Approved by: ___________________________ Date: ______________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Nacer Silarbi, OCS
Drug Status Report

**Drug:** 10-Ketonalbuphine

**Drug Name Status:** 10-Ketonalbuphine is the common name.

**Chemical Name:** N-Cyclobutylmethyl-4,5alpha-epoxymorphan-10-oxo-3,6alpha,14-triol

**Chemical structure:**

![Chemical structure of 10-Ketonalbuphine]

**Molecular Formula:** $C_{21}H_{25}NO_5$

**Pharmacological class / Application:** Opioid

**CAS-RN:** unknown

**International status:**

**US:** 10-Ketonalbuphine 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:** 10-Ketonalbuphine is not listed specifically in the Schedules to the CDSA. The substance is a derivative of nalbuphine, which is currently excluded from the CDSA and listed as sub-item 10(15) “Nalbuphine (17-(cyclobutylmethyl)-4,5α-epoxymorphan–3,6α, 14–triol” in Schedule I to the CDSA under the “but not including” provision. However, as the derivatives of nalbuphine are not captured under “but not including” provision, 10-ketonalbuphine is included under item 10 “Morphinans, their salts, derivatives and salts of derivatives including” of Schedule I to the CDSA.

**Recommendation:** 10-Ketonalbuphine is included under item 10 of Schedule I to the CDSA and is a controlled substance.

**Date:** Oct 31st, 2012.