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

Substance: Midazolam 5-Oxide and Midazolam 2-Oxide

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 midazolam and therefore included under item 18(22.1) of Schedule IV to the CDSA.

Prepared by: ____________________________ Date: Sept 24th 2010
Evelyn Soo

Verified by: ____________________________ Date: __________
Marianne Tang

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- Midazolam 5-oxide
- II - Midazolam 2-oxide

**Drug Name Status:**
- I- Midazolam 5-oxide
- II - Midazolam 2-oxide are the common names

**Chemical Name:**
- I - 8-Chloro-6-(2-fluorophenyl)-1-methyl-4H-imidazo[1,5-a][1,4]benzodiazepine, 5-oxide
- II - 8-Chloro-6-(2-fluorophenyl)-1-methyl-4H-imidazo[1,5-a][1,4]benzodiazepine, 2-oxide

**Chemical structure:**

![Chemical structure images]

**Molecular Formula:**
- I - C\textsubscript{18}H\textsubscript{13}ClF\textsubscript{3}N\textsubscript{3}O
- II - C\textsubscript{18}H\textsubscript{13}ClF\textsubscript{3}N\textsubscript{3}O

**Pharmacological class / Application:** Pharmaceutical-related substances

**CAS-RN:**
- I - 59468-83-6
- II - 59468-86-9

**International status:**

US: The substances are not listed specifically in the 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 nor the Green List - List of Psychotropic Substances under International Control.
Canadian Status: Midaxolam 5-oxide and midazolam 2-oxide are by-products relating to the synthesis of midazolam 2,5-dioxide from midazolam. The substances derivatives of midazolam, which is presently listed under as item 18(22.1) in Schedule IV to the CDSA under the item heading “Benzodiazepines, their salts and derivatives, including:”, and therefore must be included under item 18(22.1) of Schedule IV to the CDSA.

**Recommendation:** Midaxolam 5-oxide and midazolam 2-oxide are included under item 18(22.1) of Schedule IV to the CDSA and are controlled substances.

**Date:** 24th September 2010