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

Substance: N-oxide Dextromethorphan

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 substance is related to dextromethorphan and is included under item 10 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: "third party information removed as per agreement with applicant"
Drug Status Report

**Drug:** N-oxide Dextromethorphan

**Drug Name Status:** N-oxide Dextromethorphan is the common name.

**Chemical Name:** (9α,13α,14α)-3-Methoxy-17-methylmorphinan 17-Oxide

**Other Names:** (9S,13S,14S)-3-Methoxy-17-methylmorphinan 17-Oxide; (+)-Dextromethorphan N-Oxide.

**Chemical structure:**

![Chemical Structure Image]

**Molecular Formula:** C_{18}H_{25}NO_{2}      **CAS-RN:** 1177419-85-0 (hydrochloride)

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

**International status:**

US: N-oxide Dextromethorphan 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: N-oxide Dextromethorphan is not listed specifically in the Schedules to the CDSA. It is a related substance of dextromethorphan which is currently listed as sub-item 10(10) in Schedule I and excluded from the CDSA under the “but not including” provision. While dextromethorphan is specifically excluded from the CDSA, the derivatives of dextromethorphan are not excluded from the CDSA. In addition, the substance contains the morphinan core structure and therefore must be included under item 10 of Schedule I to the CDSA, under the heading “Morphinans, their salts, derivatives and salts of derivatives including:”

**Recommendation:** N-oxide Dextromethorphan is included under item 10 of Schedule I to CDSA and is a controlled substance.

**Date:** August 1st, 2012.