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

Substance: Butyric anhydride

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 starting material in the synthesis of 2-(methylamino)-3,4'-(methyleneedioxy)butyrophenone and is not similar in structure to any of the substances listed in the CDSA.

Prepared by: __________________________ Date: October 19th 2010
   Evelyn C 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**: Butyric anhydride

**Drug Name Status**: Butyric anhydride is the common name.

**Chemical Name**: Butanoic, 1,1'-anhydride

**Other Names**: Butanoic acid, anhydride

**Chemical Structure**:

![Chemical Structure](image)

**Molecular Formula**: $C_{10}H_{18}O_3$

**CAS-RN**: 106-31-0

**Pharmacological class / Application**: Fine chemical

**International status**: 

US: The substance is not listed specifically in the CSA and is not mentioned anywhere on the DEA website.

United Nations: The substances 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: Butyric anhydride is reported to be starting material in the synthesis of 2-(methylamino)-3,4'-(methyleneoxy)butyrophenone and is not currently listed in the CDSA. The substance shows some structural similarity to acetic anhydride but cannot be included under item 1 of Part A of Schedule VI to the CDSA.

**Recommendation**: Butyric anhydride is not included in the schedules to the CDSA and is not a controlled substance nor a precursor chemical.

**Date**: October 19th 2010