



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

Substance: 4-Nitroaniline, 2-chlorobenzoyl chloride and 2-chlorobenzoyl-d4 chloride

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled [ ]
Not Controlled [x]

under the schedules of the Controlled Drugs and Substances Act (CDSA) for the following reason(s):

- The substances are not structurally similar to any of the substances listed in the CDSA

Prepared by: Evelyn C Soo Date: Sept 21st 2010

Verified by: Marianne Tang Date:

Approved by: DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES Date:

This status was requested by: "third party information removed as per agreement with applicant"

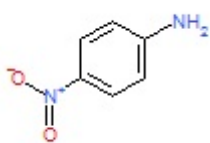
## Drug Status Report

**Drug:** I - 4-Nitroaniline  
II - 2-chlorobenzoyl chloride  
III - 2-chlorobenzoyl-d4 chloride

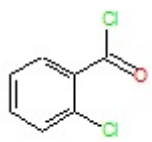
**Drug Name Status:** I - 4-Nitroaniline  
II - 2-chlorobenzoyl chloride  
III - 2-chlorobenzoyl-d4 chloride are the common names.

**Chemical Name:** I - 4-Nitrobenzenamine  
II - 2-chlorobenzoyl chloride  
III - 2-chlorobenzoyl-d4 chloride

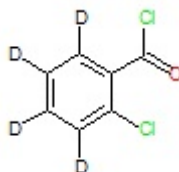
### Chemical Structure:



I



II



III

**Molecular Formula:** I - C<sub>6</sub>H<sub>6</sub>N<sub>2</sub>O<sub>2</sub>; II - C<sub>7</sub>H<sub>4</sub>Cl<sub>2</sub>O; III - C<sub>6</sub>D<sub>4</sub>Cl<sub>2</sub>O

**CAS-RN:** I - 22581-63-1; II - 609-65-4; III - NONE

**Pharmacological class / Application:** Fine Chemical

### International status:

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

United Nations: The substance are 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: 4-Nitrobenzenamine, 2-chlorobenzoyl chloride and 2-chlorobenzoyl-d4 chloride are not currently listed in the CDSA. The substances are claimed to be starting materials in the synthesis of various clonazepam derivatives including clonazepam-d4 and methyl clonazepam. While clonazepam listed as item 18(6) in Schedule 4 to the CDSA, the substances does not display any structural similarities to any of those included in the Schedules to the CDSA.

**Recommendation:** 4-Nitrobenzenamine, 2-chlorobenzoyl chloride and 2-chlorobenzoyl-d4 are not included in the Schedules to the CDSA and are not controlled substances nor precursor chemicals.

**Date:** September 21<sup>st</sup>, 2010