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

Substance: 4-(Phenylamino)-1-benzyl-4-piperidinecarbonitrile

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 a starting material in the synthesis of norcarfentanil and does not contain the core structure of the fentanyls and therefore not included under item 16 of Schedule I to 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**: 4-(Phenylamino)-1-benzyl-4-piperidinecarbonitrile

**Drug Name Status**: 4-(Phenylamino)-1-benzyl-4-piperidinecarbonitrile is the common name.

**Chemical Name**: 4-Anilino-1-benzylpiperidine-4-carbonitrile

**Chemical Structure**: 

![Chemical Structure Image]

**Molecular Formula**: C₁₉H₂₁N₃

**CAS-RN**: 968-86-5

**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: 4-(Phenylamino)-1-benzyl-4-piperidinecarbonitrile is reported to be starting material in the synthesis of norcarfentanil, a metabolite of carfentanil which is currently listed as sub-item 16(3) under Schedule I to the CDSA under the heading “Fentanyl, their salts, derivatives, and analogues and salts of derivatives and analogues, including:”. 4-(Phenylamino)-1-benzyl-4-piperidinecarbonitrile is not currently listed in the CDSA and the substance does not contain the common root structure of the fentanyls as shown below:

![Root Structure Image]

R=ethyl group substituted variously at the 1 and 2 position  
R₁=hydrogen, methoxymethyl or carboxylate alkyl ester  
R₂=phenyl or substituted phenyl  
R₃=alkyl  
R₄=hydrogen or alkyl
Accordingly, 4-(Phenylamino)-1-benzyl-4-piperidinecarbonitrile cannot be included under item 16 of Schedule I to the CDSA.

**Recommendation:** 4-(Phenylamino)-1-benzyl-4-piperidinecarbonitrile is not included in the schedules to the CDSA and is not a controlled substance.

**Date:** October 19th 2010