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

Substance: 1-[1-(1-benzothiophen-2-yl)cyclohexyl]piperidine

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 derivative and structural analogue of phencyclidine and therefore captured under item 14 of Schedule I to the CDSA.

Prepared by: ________________________________ Date: Jan 26th 2011

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:** 1-[(1-(1-benzothiophen-2-yl)cyclohexyl)piperidine

**Drug Name Status:** Benocyclidine is the common name.

**Chemical Name:** 1-[(1-(1-benzothiophen-2-yl)cyclohexyl)piperidine

**Other Names:** GK 13; 1-(1-(2-thienyl)cyclohexyl)piperidine; 1-(1-(1-benzo(b)thienyl)cyclohexyl)piperidine; 1-Btcp; BTCP; GK-13; N-(1-(2-benzo(b)thienyl)cyclohexyl)piperidine

**Chemical structure:**

![Chemical structure of 1-[(1-(1-benzothiophen-2-yl)cyclohexyl)piperidine]

**Molecular Formula:** C_{19}H_{25}NS

**Pharmacological class / Application:** Dopamine reuptake inhibitor

**CAS-RN:** 112726-66-6

**International status:**

US: 1-[(1-benzothiophen-2-yl)cyclohexyl]piperidine 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 specifically on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: 1-[(1-benzothiophen-2-yl)cyclohexyl]piperidine is not listed specifically in the CDSA. However, the substance has been reported in the literature to be a derivative of

**Phencyclidine**
phencyclidine whereby the phenyl ring is replaced by a benzo thiophenyl ring\textsuperscript{1}, and reported to display discriminative stimulus effects similar to that of cocaine\textsuperscript{2}. The substance may also be considered a structural analogue of phencyclidine for the purpose of forming status decisions. Phencyclidine (1-(1-phenylcyclohexyl)piperidine), its salts, derivatives and analogues and salts of derivatives and analogues including:” is currently listed as item 14 in Schedule I to the CDSA. Given that the substance is a derivative of phencyclidine, it must be included under item 14 of Schedule I to the CDSA.

**Recommendation:** 1-[1-(1-benzo thiophen-2-yl)cyclohexyl)piperidine is included under item 14 of Schedule I to the CDSA and is a controlled substance.

**Date:** 26th January 2011

\textsuperscript{1}Duterte-Boucher, D. et al. (1990) Comparison of the effects of three indirect dopamine agonists, GK 13, GBR 12783 and dexamphetamine on behavioural tests involving central catecholaminergic transmissions, Psychopharmacol. 101:344-353.

\textsuperscript{2}Kleven, MS et al. (1999) Pharmacological characterization of the discriminative stimulus properties of the phencyclidine analog, N-[1-(2-benz(o)thiophenyl)-cyclohexyl)piperidine. Psychopharmacol. 145:370-377.