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

Substance:  Erythro-(alpha)-Phenyl-(alpha)-piperidyl-(2)-acetamide

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):

- Methylphenidate is included in Schedule III as item 2, “Methylphenidate (a-Phenyl-2-piperidineacetic acid methyl ester) and any salt thereof.
- The substance is not a salt of methylphenidate

Supporting document(s) attached:

Prepared by: ___________________________ Date: ___________
SHEREEN KHAN

Verified by: ______ See email ________________ Date: ___________
MICHAEL LEBELLE

Approved by: ___________________________ Date: ___________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES
Drug Status Report

**Drug:** Methylphenidate related substances
erythro-(alpha)-Phenyl-(alpha)-piperidyl-(2)-acetic acid hydrochloride (I)
erythro-(alpha)-Phenyl-(alpha)-piperidyl-(2)-acetamide (II)
threeo-(alpha)-Phenyl-(alpha)-piperidyl-(2)-acetic acid hydrochloride (III)
threeo-(alpha)-Phenyl-(alpha)-piperidyl-(2)-acetamide (IV)

**Drug Name Status:** All of the above names are chemical names

**Chemical structure:**

![Methylphenidate](image1.png)

Methylphenidate

![I and III](image2.png)

I and III

![II and IV](image3.png)

II and IV

**Molecular Formula:**

$C_{13}H_{17}NO_2$ (I and III)

$C_{13}H_{18}N_2O$ (II and IV)

**Pharmacological class / Application:** methylphenidate related compound

**International status:**

US: These chemicals are not currently listed on the US Controlled Substances Act and are not mentioned on the DEA website.
United Nations: The chemicals are not listed on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Methylphenidate is included in Schedule III as item 2, “Methylphenidate (a-Phenyl-2-piperidineacetic acid methyl ester) and any salt thereof.” Compounds I - IV are related to methylphenidate from a pharmaceutical perspective. They may be degradation products of methylphenidate or synthetically related compounds. The four substances are not salts of methylphenidate. The stereochemical designations of the substances - threo and erythro - are irrelevant to their status.

Recommendation: Substances I to IV are not included in the schedules to the CDSA and are not controlled substances.

February 9, 2006