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

Substance:  5-Phenyl-5-ethyl-2-thiobarbituric acid

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

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Controlled ✓
Not Controlled □
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under the schedules of the Controlled Drugs and Substances Act (CDSA) for the following reason(s):

- The substance is a thiobarbiturate and therefore included under item 2 of Schedule IV to the CDSA.

Prepared by: ___________________________________________ Date: Oct 26th 2010

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:** 5-Phenyl-5-ethyl-2-thiobarbituric acid

**Drug Name Status:** 5-Phenyl-5-ethyl-2-thiobarbituric acid is the common name

**Chemical Name:** 5-Ethyl-dihydro-5-phenyl-2-thioxopyrimidine-4,6(1H,5H)-dione

**Other Names:** 2-thiophenobarbital; 5-ethyl-5-phenyl-thiobarbituric acid

**Chemical structure:**

![Chemical structure](image)

**Molecular Formula:** C_{12}H_{12}N_{2}O_{2}S

**Pharmacological class / Application:** Thiobarbiturate

**CAS-RN:** 2753-74-4

**International status:**

US: 5-Phenyl-5-ethyl-2-thiobarbituric acid is not currently listed in the schedules to the Controlled Substances Act and is not mentioned anywhere on the DEA website.

United Nations: The substance is 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: 5-Phenyl-5-ethyl-2-thiobarbituric acid is not listed specifically in the CDSA. A review of the chemical structures of the thiobarbiturates listed under item 2 of Schedule IV to the CDSA reveals the following characteristic root structure:

![Chemical structure](image)

where R_1, R_2, R_3, and R_4 are various chemical substituents that differentiate the barbiturates, and where the R groups in the case of thiobarbituric acid are hydrogen (H). Based on its structure, 5-
phenyl-5-ethyl-2-thiobarbituric acid must be included under heading “Thiobarbiturates, their salts and derivatives including” of item 2 of Schedule IV to the CDSA.

**Recommendation:** 5-Phenyl-5-ethyl-2-thiobarbituric acid is included under item 2 of Schedule IV to the CDSA and is a controlled substance.

**Date:** 26th October 2010