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

Substance:  1,3-Diethyl-2-thiobarbituric acid

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 thiobarbiturate and therefore included under item 2 of Schedule IV to the CDSA.

Prepared by: ________________________________  Date: February 16th, 2012
Vincent Marleau

Verified by: ________________________________  Date: _________
Mark Kozlowski

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:** 1,3-Diethyl-2-thiobarbituric acid

**Drug Name Status:** 1,3-Diethyl-2-thiobarbituric acid is the common name

**Chemical Name:** 1,3-Diethyldihydro-2-thioxopyrimidine-4,6(1H,5H)-dione

**Other Names:** 1,3-Diethylthiobarbituric acid; 4,6(1H,5H)-Pyrimidinedione, 1,3-diethyldihydro-2-thioxo-; N,N'-Diethyl-2-thiobarbituric acid; N,N'-Diethylthiobarbituric acid.

**Chemical structure:**

![Chemical structure diagram]

**Molecular Formula:** C_{8}H_{12}N_{2}O_{2}S

**Pharmacological class / Application:** Thiobarbiturate

**CAS-RN:** 5217-47-0

**International status:**

US: 1,3-Diethyl-2-thiobarbituric acid is not listed in the *US 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, 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: 1,3-Diethyl-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:
where R₁, R₂, R₃, and R₄ 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, 1,3-Diethyl-2-thiobarbituric acid must be included under Item 2 of Schedule IV to the CDSA under heading “Thiobarbiturates, their salts and derivatives including”.

**Recommendation:** 1,3-Diethyl-2-thiobarbituric acid is included under item 2 of Schedule IV to the CDSA and is a controlled substance.

**Date:** February 16th, 2012.