



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

Substance: Thiobutabarbital

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

Controlled	<input checked="" type="checkbox"/>
Not Controlled	<input type="checkbox"/>

under the schedules of the *Controlled Drugs and Substances Act* (CDSA) for the following reason(s):

- Under item 2, Schedule IV to the CDSA several thiobarbiturates are explicitly listed.
- The members of the two groups are most frequently differentiated by differences in the substituents in the molecule at R and R₁ although the ring nitrogens may also carry substituents.
- Thiobutabarbital is a thiobarbiturate

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: Thiobutabarbital

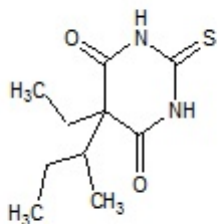
Drug Name Status: Thiobutabarbital is a common name

Chemical Name:

5-Ethyl-5-(1-methylpropyl)-2-thioxo-4,6(1H,5H)-pyrimidinedione

Other Names: 5-(sec-Butyl)-5-ethyl-5-ethyl-2-thioxopyrimidine-4,6(1H,5H)-dione; 5-sec-butyl-5-ethyl-2-thio-barbituric acid

Chemical structure:



Molecular Formula: C₁₀H₁₆N₂O₂S

Pharmacological class / Application: anaesthetic

International status:

US: The drug is not included specifically in the Schedules to the CSA. It is not mentioned on the DEA website. However, Schedule III to the CSA contains the following item:

“(b) Unless specifically excepted or unless listed in another schedule, any material, compound, mixture, or preparation which contains any quantity of the following substances having a depressant effect on the central nervous system: (1) Any substance which contains any quantity of a derivative of barbituric acid, or any salt of a derivative of barbituric acid.”

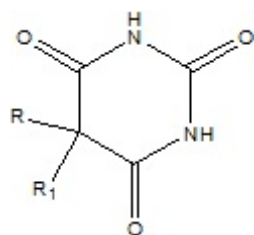
Thiobutabarbital is likely considered a controlled substance under the CSA due to this item.

United Nations: Several barbiturates are listed on Schedules II, III and IV to the 1971 Convention. Thiobarbiturates are not listed.

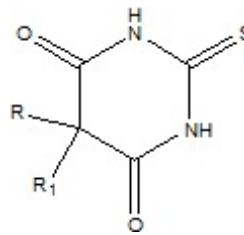
Canadian Status: Item 2 of Schedule IV to the CDSA is “Thiobarbiturates, their

salts and derivatives.” Several thiobarbiturates are explicitly listed. The core structures of barbiturates and thiobarbiturates are shown on the next page. The members of the two groups are most frequently differentiated by differences in the substituents in the molecule at R and R₁ although the ring nitrogens may also carry substituents.

Thiobutabarbital is a thiobarbiturate.



Barbiturate



Thiobarbiturate

Recommendation:

Thiobutabarbital is included in item 2 of Schedule IV to the CDSA and is a controlled substance.

February 6, 2006