



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

Substance: 1-Cyclohexyl-5-ethylbarbituric acid

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

Controlled X
Not Controlled [ ]

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

- From the structure of 1-cyclohexyl-5-ethylbarbituric acid, it is clear that it is a member of the barbiturate family.

Supporting document(s) attached:

Prepared by: SHEREEN KHAN Date:

Verified by: See email MICHAEL LEBELLE Date:

Approved by: DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES Date:

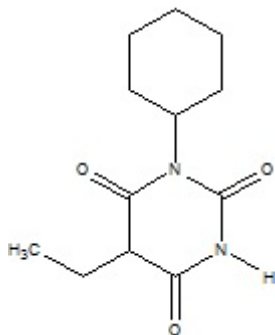
## Drug Status Report

**Drug:** 1-Cyclohexyl-5-ethylbarbituric acid

**Drug Name Status:** 1-Cyclohexyl-5-ethylbarbituric acid is a common name

**Chemical Name:** 1-cyclohexyl-5ethyl-2,4,6(1H,3H,5H)-pyrimidinetrione

**Chemical structure:**



**Molecular Formula:** C<sub>12</sub>H<sub>17</sub>N<sub>2</sub>O<sub>3</sub>

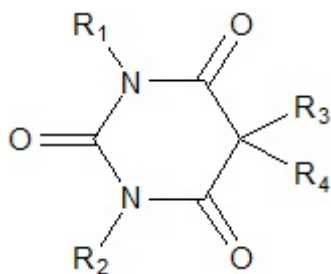
**Pharmacological or Chemical class / Application:** barbiturate; used in the dental industry as a catalyst in dental surface products.

**International status:**

US: The chemical is not currently listed on the US Controlled Substances Act and is not mentioned on the DEA website. However, barbituric acid derivatives are included in Schedule III to the CSA which would include 1-cyclohexyl-5-ethylbarbituric acid.

United Nations: The chemical is not listed on the Yellow List - List of Narcotic Drugs under International Control. The drug is not listed on the Green List - List of Psychotropic Substances under International Control.

Canadian Status: The drug is currently not listed specifically on the CDSA. Item 1 of Schedule IV to the CDSA is, "Barbiturates, their salts and derivatives." The barbiturates listed in item 1 contain the following characteristic root structure:



Where R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, and R<sub>4</sub> are various chemical constituents that differentiate the barbiturates.

When  $R_1$ ,  $R_2$ ,  $R_3$ , and  $R_4$  all equal H, the substance at the left is barbituric acid.

From the structure of 1-cyclohexyl-5-ethylbarbituric acid above, it is clear that it is a member of the barbiturate family.

Recommendation: 1-Cyclohexyl-5-ethylbarbituric is included in item 1 of Schedule IV to the CDSA and is a controlled substance.

January 31, 2006