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

Substance: Violuric 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 barbiturate and captured under item 1 of Schedule IV to the CDSA.

Prepared by: ________________________________  Date: December 13th, 2011

Evelyn C Soo

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: Violuric acid

Drug Name Status: Violuric acid is the common name.

Chemical Name: 2,4,5,6(1H,3H)-pyrimidinetetrone 5-oxime

Other Names: 5-Hydroxyiminobarbituric acid; Alloxan, 5-oxime; 5-Isonitrosobarbituric acid

Chemical structure:

\[
\begin{align*}
\text{Chemical structure:} & \\
\text{Molecular Formula:} & \text{C}_4\text{H}_3\text{N}_3\text{O}_4
\end{align*}
\]

Pharmacological class / Application: Barbituric acid; fine Chemical

CAS-RN: 87-39-8

International status:

US: Violuric 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: Violuric acid is not currently listed in the CDSA. The substance is a derivative of 5-oxobarbituric acid (alloxan) and is a barbiturate. It is noteworthy that a review of the scientific literature indicates that violuric acid is generally used as a reagent, for example, as a catalyst in the pulp and paper industry\(^1\) and also as a chelating reagent\(^2\). This is in contrast to the


more well known application of barbiturates as sedatives. Nonetheless, item 1 of Schedule IV is “Barbiturates, their salts and derivatives including” and therefore as a barbiturate, violuric acid is considered captured under item 1 of Schedule IV to the CDSA.

**Recommendation:** Violuric acid is included under item 1 of Schedule IV to the CDSA and is a controlled substance.

**Date:** December 13th, 2011