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

Substance: Cyanoketone

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 has not been reported in the literature to display any anabolic activity and has not been shown to be a derivative of dehydroepiandrosterone (DHEA). Therefore, the substance is not included under Item 23 of Schedule IV to the CDSA.

Prepared by: ___________________________ Date: August 17, 2011

Zack Li

Verified by: ___________________________ Date: __________

Mark Kozlowski

Approved by: ___________________________ Date: __________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Eva Roig, OCS
Drug Status Report

**Drug:** Cyanoketone

**Drug Name Status:** Cyanoketone is the common name.

**Chemical Name:** Androst-5-ene-2-alpha-carbonitrile, 17-beta-hydroxy-4,4,17-trimethyl-3-oxo-

**Other Name:** Cyanotrimethylandrostenolone; BRN 5763422; 2-alpha-Cyano-4,4,17-alpha-trimethylandrost-5-en-17-beta-ol-3-one

**Chemical structure:**

![Chemical structure of Cyanoketone](image)

**Molecular Formula:** C_{23}H_{33}NO_{2}

**CAS RN:** 4248-66-2

**Pharmacological class / Application:** Steroids

**International status:**

US: Cyanoketone is not listed on the schedules to 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: Cyanoketone is a steroid-biosynthesis inhibitor that reduces the transformation of DHEA in toads\(^1\) and is not listed in the CDSA. The substance is structurally similar to DHEA, which is currently listed as sub-item 23(36) in Schedule IV to the CDSA as prasterone (3β-hydroxyandrost-5-en-17-one, under the heading “Anabolic steroids and their derivatives”). However, there is presently no evidence in the scientific literature that suggests that cyanoketone is an anabolic steroid or a derivative of DHEA. Therefore, the substance cannot be included under item 23 of Schedule IV to the CDSA.

**Recommendation:** Cyanoketone is not included under item 23 of Schedule IV to the CDSA and is not a controlled substance.

**Date:** August 17, 2011