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

Substance: 1-(1,3-benzodioxol-5-yl)-2-butanone

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 similar to amphetamine. However, the substance is lacking the core structure of the amphetamines and therefore cannot be included under item 1 of Schedule III to the CDSA.

Prepared by: ________________________________ Date: June 20, 2011

Zack Li

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-(1,3-benzodioxol-5-yl)-2-butanone

Drug Name Status: 1-(1,3-benzodioxol-5-yl)-2-butanone is the common name.

Chemical Name: 1-(1,3-Benzodioxol-5-yl)butan-2-one

Molecular Formula: C_{11}H_{12}O_{3}

CAS-RN: 23023-13-4

Pharmacological class / Application: Pharmaceutical-related substances

International status:

US: 1-(1,3-benzodioxol-5-yl)-2-butanone 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: 1-(1,3-benzodioxol-5-yl)-2-butanone is a flavoring agent and is not deemed to be a safety concern by the WHO\(^1\). The substance is not currently listed in the CDSA and while it displays structural similarities to amphetamine, it does not contain the alpha-methyl nor the amine functional group of the core amphetamine structure. Therefore, 1-(1,3-benzodioxol-5-yl)-2-butanone cannot be considered an analogue of amphetamine.

**Recommendation:** 1-(1,3-benzodioxol-5-yl)-2-butanone is not included in the schedules to the CDSA and is not a controlled substance.

**Date:** June 20, 2011

\(^1\)http://whqlibdoc.who.int/publications/2011/9789241660648_eng.pdf