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

Substance:  
I - 2,3-(Methylenedioxy)benzaldehyde 
II - 4-Benzyl oxy-3-methoxybenzaldehyde

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 substances are not considered to be similar to any of those included in the Schedules to the CDSA.

Prepared by: ________________________________ Date: Dec 10th 2010

Evelyn Soo

Verified by: ________________________________ Date: __________

Marianne Tang

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:**  
I - 2,3-(Methylenedioxy)benzaldehyde  
II - 4-Benzyl-3-methoxybenzaldehyde

**Drug Name Status:**  
I - 2,3-(Methylenedioxy)benzaldehyde  
II - Benzy1vanillin are the common names.

**Chemical Name:**  
I - Benzo-1,3-dioxole-4-carboxaldehyde  
II - 3-methoxy-4-(phenylmethoxy)-benzaldehyde

**Chemical Structure:**

![Chemical Structure](image)

**Molecular Formula:**  
I - C₈H₆O₃; II - C₁₅H₁₄O₃

**CAS-RN:**  
I - 7797-83-3; II - 2426-87-1

**Pharmacological class / Application:** Fine chemical

**International status:**

US: 2,3-(Methylenedioxy)benzaldehyde and 4-benzy1-3-methoxybenzaldehyde are not currently listed in the Schedules to the US *Controlled Substances Act* and are not mentioned anywhere on the DEA website.

United Nations: The substances are 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: 2,3-(Methylenedioxy)benzaldehyde and 4-benzy1-3-methoxybenzaldehyde are claimed to be starting materials in the synthesis of 2,3-methylenedioxymethamphetamine hydrochloride and 4-hydroxy-3-methoxymethamphetamine hydrochloride, respectively, and are not currently listed in the CDSA. As shown above, 2,3-(methylenedioxy)benzaldehyde is structurally similar to piperonal and differ only with respect to the position of the aldehyde.
group. Piperonal is currently listed as item 14 “Piperonal (1,3-benzodioxole-5-carboxyaldehyde)” in Part 1 of Schedule VI to the CDSA and is considered a Class A Precursor. However, the item heading does not extend to include 2,3-(methylene dioxy)benzaldehyde. Regarding 4-benzyloxy-3-methoxybenzaldehyde, the substance is not structurally similar to any of those included in the Schedules to the CDSA.

**Recommendation:** 2,3-(Methylene dioxy)benzaldehyde and 4-benzyloxy-3-methoxybenzaldehyde are not included in the Schedules to the CDSA and are not controlled substances.

**Date:** 10 December 2010