



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

Substance: 2-acetylthiophene; N,N-Dimethylformamide diethyl acetal; (3-amino-1H-pyrazol-4-yl)-thiophen-2-ylmethanone; N-(3-Dimethylamino-acryloyl)-phenyl)-N-methyl-acetamide; N-(3-(3-dimethylaminoacryloyl)-phenyl)acetamide

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

Controlled [ ]
Not Controlled [x]

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

- The substances are not structurally similar to any of the substances included in the Schedules to the CDSA.

Prepared by: Evelyn Soo Date: Sept 21st 2010

Verified by: Marianne Tang Date:

Approved by: DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES Date:

This status was requested by: third party information removed as per agreement with applicant

## Drug Status Report

### Drug:

I - 2-Acetylthiophene

II - N,N-Dimethylformamide dimethyl acetal

III - (3-Amino-1H-pyrazol-4-yl)l-thiophen-2-ylmethanone

IV - N-(3-(3-dimethylaminoacryloyl)-phenyl)acetamide

V -N-(3-Dimethylamino-acryloyl)-phenyl)-N-methyl-acetamide

### Drug Name Status:

I - 2-Acetylthiophene

II - N,N-Dimethylformamide dimethyl acetal

III - (3-amino-1H-pyrazol-4-y)l-thiophen-2-ylmethanone

IV - N-(3-(3-dimethylaminoacryloyl)-phenyl)acetamide

V - N-(3-Dimethylamino-acryloyl)-phenyl)-N-methyl-acetamide are the common names.

### Chemical Name:

I - 1-(2-Thienyl)ethanone

II - 1,1-Dimethoxytrimethylamine

III - 3-amino-1H-pyrazol-4-y)l-thiophen-2-ylmethanone

IV - N-[3-[3-Dimethylamino-1-oxo-2-propenyl]phenyl]acetamide

V -N-[3-((E)-3-dimethylamino-acryloyl)-phenyl)-N-methyl acetamide

### Other Names:

I - 2-acetothienone; 2-acetothiophene, 2-thienyl methyl ketone; alpha-acetylthiophene

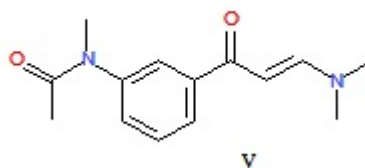
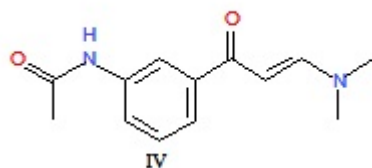
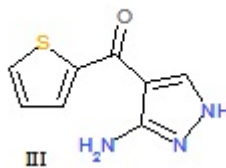
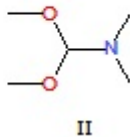
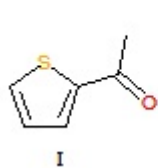
II - Dimethylformamide-dimethylacetal; 1,1-dimethoxy-N,N-dimethylmethanamine

III - (3-aminopyrazol-4-yl)(2-thienyl)methanone

IV - none

V - none

### Chemical structure:



**Molecular Formula:** I - C<sub>6</sub>H<sub>6</sub>OS; II - C<sub>5</sub>H<sub>13</sub>NO<sub>2</sub>; III - C<sub>8</sub>H<sub>7</sub>N<sub>3</sub>OS; IV - C<sub>13</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub>; V- C<sub>14</sub>H<sub>18</sub>N<sub>2</sub>O<sub>2</sub>

**Pharmacological class / Application:** Pharmaceutical-related substance

**CAS-RN:** I - 88-15-3; II - 4637-24-5; III - 96219-87-3; IV - 96605-61-7; V- 96605-65-1

**International status:**

US: The substances are not listed specifically in the 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-acetylthiophene, N,N-Dimethylformamide diethyl acetal, (3-amino-1H-pyrazol-4-yl)-thiophen-2-ylmethanone, N-(3-Dimethylamino-acryloyl)-phenyl)-N-methylacetamide and N-(3-(3-dimethylaminoacryloyl)-phenyl)acetamide are starting materials used in the synthesis of indiplon and are not currently listed in the CDSA. The substances are not structurally similar to any of those included in the Schedules to the CDSA. It is noteworthy that a review of indiplon determined that the drug was not a controlled substance.

**Recommendation:** 2-acetylthiophene, N,N-Dimethylformamide diethyl acetal, (3-amino-1H-pyrazol-4-yl)-thiophen-2-ylmethanone, N-(3-Dimethylamino-acryloyl)-phenyl)-N-methylacetamide and N-(3-(3-dimethylaminoacryloyl)-phenyl)acetamide are not included in the Schedules to the CDSA and are not controlled substances.

**Date:** 21 September 2010