



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

Substance: Cocaethylene

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

Controlled X
Not Controlled [ ]

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

- As cocaethylene is a derivative of ecgonine, it is included in item 2 of Schedule I to the CDSA

Supporting document(s) attached:

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_
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Approved by: \_\_\_\_\_ Date: \_\_\_\_\_
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

## Drug Status Report

**Drug:** Cocaethylene

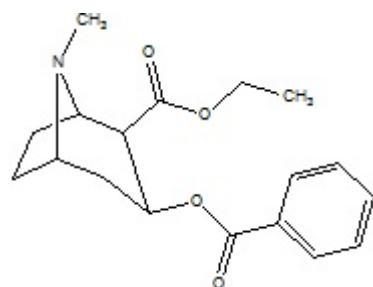
**Drug Name Status:** Cocaethylene is a common name

**Chemical Name:**

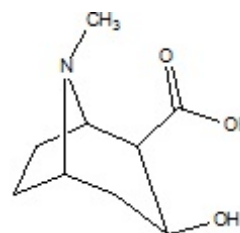
[1R-(exo,exo)]-3-(benzoyloxy)-8-methyl-8-azabicyclo[3.2.1]octane-2-carboxylic acid ethyl ester

**Other Names:** cocaine ethyl analogue; ethyl cocaine

**Chemical structure:**



Cocaethylene



Ecgonine

**Molecular Formula:**  $C_{18}H_{23}NO_4$

**Pharmacological class / Application:** coca related substance

**International status:**

US: In the Controlled Substances Act, “narcotic drug means any of the following whether produced directly or indirectly by extraction from substances of vegetable origin, or independently by means of chemical synthesis, or by a combination of extraction and chemical synthesis: .....

.....

(D) Cocaine, its salts, optical and geometric isomers, and salts of isomers.

(E) Ecgonine, its derivatives, their salts, isomers, and salts of isomers.

(F) Any compound, mixture, or preparation which contains any quantity of any of the substances referred to in subparagraphs (A) through (E).

Cocaine and derivatives of ecgonine are listed on Schedule II to the CSA.

United Nations: “Ecgonine, its esters and derivatives which are convertible to cocaine” are included in Schedule I to the 1961 Convention.

Canadian Status: Item 2 of Schedule I to the CDSA is, “Coca (Erythroxyton), its

preparations, derivatives, alkaloids and salts, including:

2.(1) Coca leaves

2.(2) Cocaine (Benzoylmethylecgonine)

2.(3) Ecgonine (3-Hydroxy-2-tropane carboxylic acid)

As cocaethylene is a derivative of ecgonine, it is included in item 2 of Schedule I to the CDSA. This interpretation of item 2 of the CDSA is consistent with that used in declaring norcocaethylene (OCS decision of Dec. 14, 2004) and several other ecgonine derivatives including norcocaine and cinnamoylcocaine to be controlled substances.

Recommendation: Cocaethylene is included in Item 2 of Schedule I to the CDSA and is a controlled substance.

February 3, 2006