Health Canada Santé Canada

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

Substance: Desmethylprodine

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 an analogue of prodine and therefore included under Item 3 of Schedule I to the CDSA.

Prepared by: _____ Date: February 1st, 2012
Vincent Marleau

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

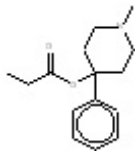
Drug: Desmethylprodine

Drug Name Status: Desmethylprodine is the common name

Chemical Name: 4-Propionyloxy-4-phenyl-N-methylpiperidine

Other Names:
1-Methyl-4-phenyl-4-piperidinol propionate; 1-Methyl-4-phenyl-4-propionoxypiperidine; 3-Demethylprodine; Propionic acid, 1-methyl-4-phenyl-4-piperidyl ester; 4-Propionyloxy-4-phenyl-N-methylpiperidine.

Chemical structure:



Molecular Formula: $C_{15}H_{21}NO_2$

Pharmacological class / Application: Alphaprodine analogue

CAS-RN: 13147-09-6

International status:

US: Desmethylprodine is not listed in 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: Desmethylprodine is not specifically listed in the schedules to the CDSA. This substance is considered an analogue of prodine[1], the isomers which are listed as Sub-Item 3(3) and Sub-Item 3(6) in Schedule I to the CDSA under the heading "Phenylpiperidines, their intermediates, salts, derivatives and analogues and salts of intermediates, derivatives and analogues, including:". As an analogue of prodine, desmethylprodine must be included under Item 3 of Schedule I to the CDSA and considered a controlled substance.

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[1]Abdel-Monem, M.M. *et al*. (1972) Stereochemical Studies on Medicinal Agents. 11. Metabolism and Distribution of Prodine Isomers in Mice. Journal of Medicinal Chemistry. **15(5)**: 494-500.

Recommendation: Desmethylprodine is included under Item 3 of Schedule I to the CDSA and is considered a controlled substance.

Date: February 1st, 2012.