Drug Status Report

**Drug**: Fluperlapine

**Drug Name Status**: Fluperlapine is the proper name (INN).

**Chemical Name**: 3-Fluoro-6-(4-methyl-1-piperazinyl)morphanthridine

**Chemical structure**:

![Chemical Structure of Fluperlapine]

**Molecular Formula**: $C_{19}H_{20}FN_3$

**Pharmacological class / Application**: Antipsychotic

**International status**:

US: The substance is not currently listed on the US Controlled Substances Act and is not mentioned on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Fluperlapine is a structural analog of the antipsychotic drug clozapine and was developed in the search for new antipsychotic drugs that would not cause agranulocytosis in the treatment of schizophrenia\(^1\). Clonazepin is excluded specifically from the heading “Benzodiazepines, their salts and derivatives, including” of item 18 of Schedule IV to the CDSA and listed as sub-item 32.1. While fluperlapine bears some structural similarity to the benzodiazepines, the substance belongs to a class of compounds known as the dibenzazepines\(^2\), which do not contain the essential structural elements of the benzodiazepines shown below:

![Characteristic structural features of benzodiazepines]

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In addition, the substance is not a salt or derivative of a benzodiazepine and therefore is not included under the heading “Benzodiazepines, their salts and derivatives, including” of Item 18 of Schedule IV to the CDSA.

Recommendation: Fluperlapine is not included in the Schedules to the CDSA and is not a controlled substance.

June 19th 2010