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

Substance: N-Hydroxy phentermine

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 substance is a metabolite of phentermine and cannot be included in the Schedules to the CDSA.

Prepared by: ___________________________ Date: ______________

Vincent Marleau

Verified by: ___________________________ Date: ______________

Mark Kozlowski

Approved by: ___________________________ Date: ______________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Nacer Silarbi, OCS
Drug Status Report

Drug: N-Hydroxy phentermine

Drug Name Status: N-Hydroxy phentermine is the common name.

Chemical Name: N-Hydroxy-alpha,alpha-dimethylbenzeneethanamine

Other Names: N-(2-Methyl-1-phenyl-2-propyl)hydroxylamine; N-(2-Methyl-1-phenylpropan-2-yl)hydroxylamine; N-Hydroxyphentermine.

Chemical structure:

\[
\begin{align*}
\text{HO} & \text{N} \\
\text{C}_\text{6} & \text{H}_\text{10} \\
\text{NO} &
\end{align*}
\]

Molecular Formula: C\text{10}H\text{15}NO  CAS-RN: 38473-30-2

Pharmacological class / Application: Pharmaceutical-related substance

International status:

US: N-Hydroxy phentermine is not listed specifically in the Schedules to 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: N-Hydroxy phentermine is not listed specifically in the CDSA. The substance is a urinary metabolite of phentermine\textsuperscript{1}, which is listed as item 8 of Schedule IV to the CDSA under the heading “Phentermine (\(\alpha,\alpha\)-dimethylbenzeneethanamine) and any salt thereof”. As a metabolite of phentermine, N-hydroxy phentermine is not included under item 8 of Schedule IV to the CDSA and is not a controlled substance.

Recommendation: N-Hydroxy phentermine is not included in the Schedules to the CDSA and is not a controlled substance.

Date: June 5th, 2012.