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

Substance: 3-Methoxy-α-[(trimethylsilyl)oxy]-benzeneacetonitrile

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 not structurally similar to any of those 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: “third party information removed as per agreement with applicant”
Drug Status Report

Drug: 3-Methoxy-α-[(trimethylsilyl)oxy]-benzeneacetonitrile

Drug Name Status: 3-Methoxy-α-[(trimethylsilyl)oxy]-benzeneacetonitrile is the common name.

Chemical Name: 2-(3-methoxyphenyl)-2-((trimethylsilyl)oxy)acetonitrile

Chemical structure:

\[
\begin{array}{c}
\text{O} \\
\text{Si} \\
\text{O} \\
\text{C} \\
\text{N}
\end{array}
\]

Molecular Formula: C_{12}H_{17}NO_{2}Si  
CAS-RN: 93554-98-4

Pharmacological class / Application: Fine chemical

International status:
US: 3-Methoxy-α-[(trimethylsilyl)oxy]-benzeneacetonitrile 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: 3-Methoxy-α-[(trimethylsilyl)oxy]-benzeneacetonitrile is not listed in the Schedules to the CDSA. The substance has been reported to be used as a reagent in the synthesis of selective D4 receptor ligands\(^1\) designed as potential antipsychotic substances for the treatment of schizophrenia. The substance is not structurally similar to any of those listed in the CDSA.

Recommendation: 3-Methoxy-α-[(trimethylsilyl)oxy]-benzeneacetonitrile is not included in the schedules to the CDSA and is not a controlled substance.

Date: May 8\(^{th}\), 2013.