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

Substance: Ferruginol

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 listed in the CDSA.

Prepared by: _______________________________       Date: _____________
             Evelyn C Soo

Verified by: _______________________________       Date: _____________
             Mark Kozlowski

Approved by: _______________________________       Date: _____________
             DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Lehli Pour, DAS
Drug Status Report

Drug: Ferruginol

Drug Name Status: Ferruginol is the common name.

Chemical Name: (4bS,8aS)-4b,8,8-Trimethyl-2-propan-2-yl-5,6,7,8a,9,10-hexahydrophenanthren-3-ol

Chemical structure:

Molecular Formula: C_{20}H_{30}O

Pharmacological class / Application: Abietane diterpene phenol

CAS-RN: 514-62-5

International status:

US: Ferruginol 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: Ferruginol is not listed in the Schedules to the CDSA. The substance is present in the needles of redwood Sequoia sempervirens and in the immature cones of Chamaecyparis lawsoniana, and has been reported to display various pharmacological properties including anti-tumour, anti-fungal, anti-bacterial properties and cardio-protective effects\(^1\). The substance is not structurally similar to any of those included in the Schedules to the CDSA.

Recommendation: Ferruginol is not included in the schedules to the CDSA and is not a controlled substance.

Date: September 12\(^{th}\), 2012.

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