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

Substance: Menadione

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 a synthetic form of Vitamin K and is not similar to any of those listed in the CDSA.

Prepared by: ___________________________ Date: Oct 6th 2010
Evelyn Soo

Verified by: ___________________________ Date: __________
Marianne Tang

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: Menadione

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

Chemical Name: 2-methyl-1,4-Naphthalenedione

Other Names: 2-methyl-1,4-Naphthoquinone; 2-Methylnaphthoquinone; 3-Methyl-1,4-naphthoquinone

Chemical Structure:

\[
\begin{array}{c}
\text{\includegraphics[width=1in]{chemical_structure.png}}
\end{array}
\]

Molecular Formula: C\(_{11}\)H\(_8\)O\(_2\)

Pharmacological class / Application: vitamin

CAS-RN: 58-27-5

International status:

US: The substance is not listed specifically in the CSA 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 nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Menadione is a synthetic form of vitamin K that is generally added to animal feed. The substance may also be formed \textit{in vivo} via the removal of the phytol side chain of phylloquinone, the dietary source of vitamin K\(^1\). Menadione is not currently listed in the CDSA and is not similar to any of the substances included in the Schedules to the CDSA.

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

Date: 6\(^{th}\) October 2010

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