



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

Substance:	Menadione
Based on the country that the above	current information available to the Office of Controlled Substances, it appears substance is:
	Controlled □ Not Controlled ✓
under the sche reason(s):	edules of the Controlled Drugs and Substances Act (CDSA) for the following
•	The substance is a synthetic form of Vitamin K and is not similar to any of those listed in the CDSA.
Prepared by:	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:



Molecular Formula: $C_{11}H_8O_2$

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 *in vivo* via the removal of the phytyl side chain of phylloquinone, the dietary source of vitamin K¹. Menadione is not current 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: 6th October 2010

¹Rajabi, AA. *et al.* (2010) Measurement of menadione in urine by HPLC, J. Chromatogr. B. **878**:2457-2460.