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

Substance: 2-Methyl-2-nitro-1,3-propanediol

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 similar in structure to any of those included in the schedules to 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: Daniel Abou-Chakra and C-A Chenard, OCS
Drug Status Report

**Drug:** 2-Methyl-2-nitro-1,3-propanediol

**Drug Name Status:** 2-Methyl-2-nitro-1,3-propanediol is the common name.

**Chemical Name:** 2-Methyl-2-nitro-1,3-propanediol

**Other Names:** 2-Methyl-2-Nitropropane-1,3-diol; 1,1-Dimethylol-1-nitroethane; 2-Methyl-2-nitropropanediol; NMPD; MNPD

**Chemical structure:**

![Chemical Structure Image]

**Molecular Formula:** C₄H₉NO₄

**CAS-RN:** 77-49-6

**Pharmacological class / Application:** Fine chemical

**International status:**

US: 2-Methyl-2-nitro-1,3-propanediol 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: 2-Methyl-2-nitro-1,3-propanediol is not listed in the schedules to the CDSA. The substance is a nitro alcohol and is used as an intermediate for chemical synthesis for example, in the manufacture of polymers and stabilizers. The substance is not structurally similar to those included in the schedules to the CDSA.

**Recommendation:** 2-Methyl-2-nitro-1,3-propanediol is not included in the schedules to the CDSA and is not a controlled substance.

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Date: April 19th, 2012.