Health Canada Santé Canada

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

Substance: 4-(2-Hydroxypropyl)morpholine

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 the starting material in the synthesis of moramide and is not included under Item 9 of Schedule I to the CDSA.

Prepared by: _____ Date: July 11, 2011
Zack Li

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

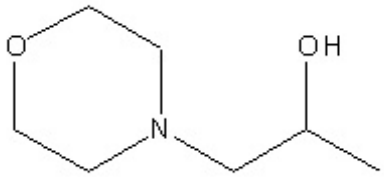
Drug: 4-(2-Hydroxypropyl)morpholine

Drug Name Status: 4-(2-Hydroxypropyl)morpholine is the common name.

Chemical Name: 4-(2-Hydroxypropyl)morpholine

Other Names: 4-Morpholineethanol, alpha-methyl-; a-Methyl-4-mopholineethanol

Chemical Structure:



Molecular Formula: $C_7H_{15}NO_2$

CAS RN: 2109-66-2

Pharmacological class / Application: Pharmaceutical-related substance

International status:

US: 4-(2-Hydroxypropyl)morpholine 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: 4-(2-Hydroxypropyl)morpholine is not listed specifically in the CDSA. It is the starting material used in the synthesis of racemoramide (see attached synthetic route) and does not contain the core structure of the moramides. Given that 4-(2-hydroxypropyl)morpholine is not an intermediate or derivative of moramide, it cannot be captured under the heading "Moramides, their intermediates, salts , derivatives..WHOLE HEADING PLEASE." of Item 9 of Schedule I to the CDSA.

Recommendation: 4-(2-Hydroxypropyl)morpholine is not included in the Schedules to the

CDSA and is not a controlled substance.

Date: July 11, 2011