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

Substance: Daminozide

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 not similar to those included in the Schedules to the CDSA.

Prepared by: ________________________________ Date: September 15, 2011

Evelyn C Soo

Verified by: ________________________________ Date: __________

Mark Kozlowski

Approved by: ________________________________ Date: __________

DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Ian Findlay, BC-CB
Drug Status Report

Drug: Daminozide

Drug Name Status: Daminozide is the proper name.

Chemical Name: Mono(2,2-dimethylhydrazide)butanoic acid

Other Names: Mono(2,2-dimethylhydrazide)succinic acid

Chemical structure:

![Chemical structure diagram]

Molecular Formula: C₆H₁₂N₂O₃

Pharmacological class / Application: Fine chemical

CAS-RN: 1596-84-5

International status:

US: Daminozide is not listed in the Controlled Substances Act and is not mentioned anywhere on the DEA website as a controlled substance.

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: Daminozide is not listed in the schedules to the CDSA. The substance has been reported to be a plant growth regulator¹ and does not display any structural similarity to the substances listed in the Schedules to the CDSA.

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

Date: Sept 15th, 2011

¹Huang CH and Stone AT. (2003) Transformation of the plant growth regulator Daminozide (Alar) and structurally related compounds with CuII ions: oxidation versus hydrolysis, 37:1829-1837.