Drug Status Report

**Drug:** CADOX M-30A VR

**Drug Name Status:** CADOX M-30A VR is the trade name.

CADOX —30A VR is an industrial curing agent consisting of the following substances:

I. 17-22 % w/w Methyl ethyl ketone peroxide
II. 0.1-1.5 % w/w Hydrogen peroxide
III. 73-83 % w/w 2,2,2-Trimethyl-1,3-pentanediol diisobutanoate
IV. 0.1-1.5 % w/w Water
V. 1-2 % w/w Methyl ethyl ketone

**Chemical Names:**

I. 2-Butanone peroxide
II. Hydrogen peroxide
III. 1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate

**Other Names:**

I. Methyl ethyl ketone hydroperoxide; ketonox
II. Hydrogen dioxide
III. Isobutyric acid, 1-isopropyl-2,2-dimethyltrimethylene ester; propanoic acid, 2-methyl-1,1'-(2,2-dimethyl-1-(1-methylethyl)-1,3-propanediyl)ester

**Chemical Structure**

I

II

III

**Molecular Formula:** C₈H₁₈O₆; H₂ O₃; C₁₆H₂₀O₄

**Pharmacological class / Application:** fine chemicals; organic peroxide

**Canadian Status:**

Methyl ethyl ketone peroxide is an industrial catalyst and is used as an accelerator in the manufacture of resins such as polyester and silicone. It is not similar to any of the substances
listed in the Schedules to the CDSA.

Hydrogen peroxide is a powerful oxidising agent and has a variety of applications including its use as a bleaching agent, disinfectant, and a propellant in rocket fuels. The substance is not similar to any of the substances listed in the Schedules to the CDSA.

1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate is used in the manufacture of polymers and plastics used in food packaging\(^1\) and is not similar to any of the substances listed in the Schedules to the CDSA.

Methyl ethyl ketone is listed Part 2 of Schedule VI to the CDSA and is a Class B precursor.

**Recommendation:** CADOX M-30A VR contains 1-2% methyl ethyl ketone, which is controlled as a Class B precursor. Therefore, CADOX M-30A VR is considered to be controlled and subject to the *Precursor Control Regulations*.

June 18, 2010