

## 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                            |

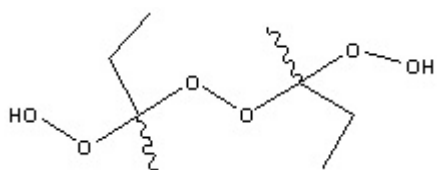
### Chemical Names:

- |      |  |
|------|--|
| 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 |

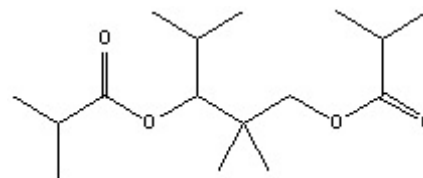
### Chemical Structure



I



II



III

**Molecular Formula:**  $C_8H_{18}O_6$ ;  $H_2O_2$ ;  $C_{16}H_{30}O_4$

**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<sup>1</sup> 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

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<sup>1</sup>Astill, BD. *et al.* (1972) The toxicology and fate of 2,2,4-trimethyl-1,3-pentanediol diisobutyrate, *Toxicol. Applied Pharmacol.* **22**:387-399.