Drug Status Report

**Drug**: 2-Heptanone

**Drug Name Status**: 2-Heptanone is the common name

**Chemical Name**: 2-Heptanone

**Other Names**: Amyl methyl ketone; methyl n-amyl ketone; Heptan-2-one

**Chemical structure**: 

![Chemical structure of 2-Heptanone]

**Molecular Formula**: C\textsubscript{7}H\textsubscript{14}O

**Pharmacological class / Application**: Fine chemical

**International status**:

US: The substance is not listed on the schedules to the CSA and is not mentioned on the DEA website.

United Nations: 2-Heptanone 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-Heptanone is a naturally-occurring compound that can be found in foods such as cheese and has been shown to be pheromone\textsuperscript{1,2}. The substance is also used as an industrial solvent\textsuperscript{3} and in electrochemical applications\textsuperscript{4}. 2-Heptanone is not similar to any of the substances listed in the schedules to the CDSA.

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\textsuperscript{1}Wang Z. et al. (2006) Pheromonal detection in male mice depends on signaling through type 3 adenylyl cyclase in the main olfactory epithelium, J. Neurosci. 26:7375-7379.

\textsuperscript{2}Shearer, DA. and Boch, R. (1965) 2-Heptanone in the mandibular gland secretion of the honey bee, Nature:206:530.


Recommendation: 2-Heptanone is not included in the schedules to the CDSA and is not considered a controlled substance.

April 26, 2010.