

Drug Status Report

Drug: **I** - 2-Ethyl hexyl phosphoric acid ester

II- Bis(2-ethylhexyl) phosphate

Drug Name Status: **I** - 2-Ethyl hexyl phosphoric acid ester is the common name

II - Bis(2-ethylhexyl) phosphate is the common name.

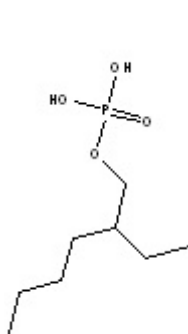
Chemical Name: **I** - Phosphoric acid, 2-ethylhexyl ester

II - Phosphoric acid, Bis(2-ethylhexyl ester)

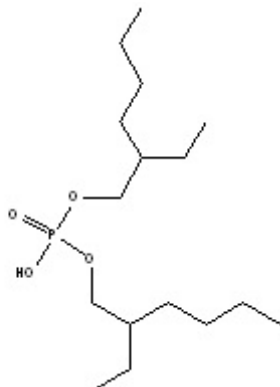
Other Names: **I** - 2-ethylhexanol phosphate; 2-ethylhexyl phosphate

II - Bis(2-ethylhexyl) hydrogen phosphate; Bis(2-ethylhexyl) phosphoric acid ester

Chemical structure:



I



II

Molecular Formula: **I** - $C_8H_{19}O_4P$; **II** - $C_{16}H_{35}O_4P$

Pharmacological class / Application: Organophosphates

International status:

US: The substances are not listed on the schedules to the CSA and are not mentioned on the DEA website.

United Nations: 2-Ethyl hexyl phosphoric acid ester and bis(2-ethylhexyl) phosphate are 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-Ethyl hexyl phosphoric acid ester and bis(2-ethylhexyl) phosphate belong to a

family of alkyl phosphates (organophosphates) and are alkyl esters of phosphoric acid¹. These substances have widespread application in the manufacture of paints and pigments². While phosphoric acid was included under Item 22 of Part 1 of Schedule VI to the CDSA, on the basis that phosphoric acid is a derivative of hypophosphorous acid, these substances are not considered to be derivatives of hypophosphorous acid and therefore should not be included under Item 22 of Part 1 of Schedule VI to the CDSA.

Recommendation: 2-Ethyl hexyl phosphoric acid ester and bis(2-ethylhexyl) phosphate are not included in the schedules to the CDSA and are not considered to be controlled substances.

April 27, 2010.

¹<http://www.epa.gov/hpv/pubs/summaries/phsacdde/c13356rt2.pdf>

²http://apps.kemi.se/flodessok/floden/_flodenbild/floden.cfm?lang=eng&Id=582